

DATE: 6/6/2019

FILE: P.I.# 0013752
Sumter County / GDOT District 3 - Thomaston
Bridge Replacement - SR 377 @ HOG #635346H in Americus

FROM:  for Brent Story, State Design Policy Engineer

TO: SEE DISTRIBUTION

SUBJECT: APPROVED CONCEPT REPORT

Attached is the approved Concept Report for the above subject project.

Attachment

Distribution:

Hiral Patel, Director of Engineering
Joe Carpenter, Director of P3
Albert Shelby, Director of Program Delivery
Carol Comer, Director, Division of Intermodal
Darryl VanMeter, Assistant Director of P3/State Innovative Delivery Administrator
Kim Nesbitt, Program Delivery Administrator
Bobby Hilliard, Program Control Administrator
Paul Tanner, State Transportation Planning Administrator
Eric Duff, State Environmental Administrator
Bill DuVall, State Bridge Engineer
Andrew Heath, State Traffic Engineer
Angela Robinson, Financial Management Administrator
Erik Rohde, State Project Review Engineer
Monica Flournoy, State Materials Engineer
Patrick Allen, State Utilities Engineer
Eric Conklin, State Transportation Data Administrator
Attn: Systems & Classification Branch
Benny Walden, Statewide Location Bureau Chief
Andy Casey, State Roadway Design Engineer
Attn: Robert Elam, Design Group Manager
Michael Presley, District Engineer
Adam Smith, District Preconstruction Engineer
Scott Parker, District Utilities Manager
Jonathan Barnett, Project Manager
BOARD MEMBER - 2nd Congressional District

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
PROJECT CONCEPT REPORT**

Project Type:	<u>Replacement</u>	P.I. Number:	<u>0013752</u>
GDOT District:	<u>3</u>	County:	<u>Sumter</u>
Federal Route Number:	<u>N/A</u>	State Route Number:	<u>SR 377</u>
Project Number:		<u>N/A</u>	

This project proposes to replace the existing bridge located on SR 377/S Lee St traversing over Genesee & Wyoming Inc. railroad and replace the sidewalks that exist within the project limits.

**** Updated 1-22-2019, 4-19-2019, 5-2-2019 & 5-6-2019 to address review comments**

Submitted for approval: ***Bryan Ricks for Jacobs Engineering Group

5-1-2019

Date

09/17/2018

Hatem Aly

Digitally signed by Hatem Aly
DN: cn=Hatem Aly, c=US,
email=hatem.aly@jacobs.com
Date: 2018.09.17 16:22:42 -
04'00'

Consultant Designer & Firm, Jacobs Engineering Group

Kimberly W. Jacob

Date

10-25-18

State Program Delivery Administrator

Derrick D. Cameron

(SHP) C.L.B.

Date

10/22/2018

GDOT Project Manager

*****Jonathan Barnett, Current Project Manager**

Date

5-2-2019

GDOT Project Manager

***** Submittals on File**

Date

*** Recommendations on File**

Recommendation for approval:

5-16-2019

***Tonia Hinton/KLP**

for **State Utilities Engineer**

1-25-2019

***Josh Taylor/KLP**

Assistant State Project Review Engineer

***Eric Duff/KLP**

12-16-2018

State Environmental Administrator

Date

***Christopher Raymond/KLP**

12-20-2018

for **State Traffic Engineer**

Date

***Michael Presley/KLP**

12-19-2018

District Engineer

Date

***Bill DuVall/KLP**

5-28-2019

State Bridge Engineer

Date

☐ **MPO Area:** This project is consistent with the MPO adopted Regional Transportation Plan (RTP)/Long Range Transportation Plan (LRTP).

☒ **Rural Area:** This project is consistent with the goals outlined in the Statewide Transportation Plan (SWTP) and/or is included in the State Transportation Improvement Program (STIP).

R. Paul Janner

State Transportation Planning Administrator

12-18-18

Date

APPROVALS

Concur:

Kim Burt

GDOT Director of Engineering

Approve:

Margaret B. Pirkle

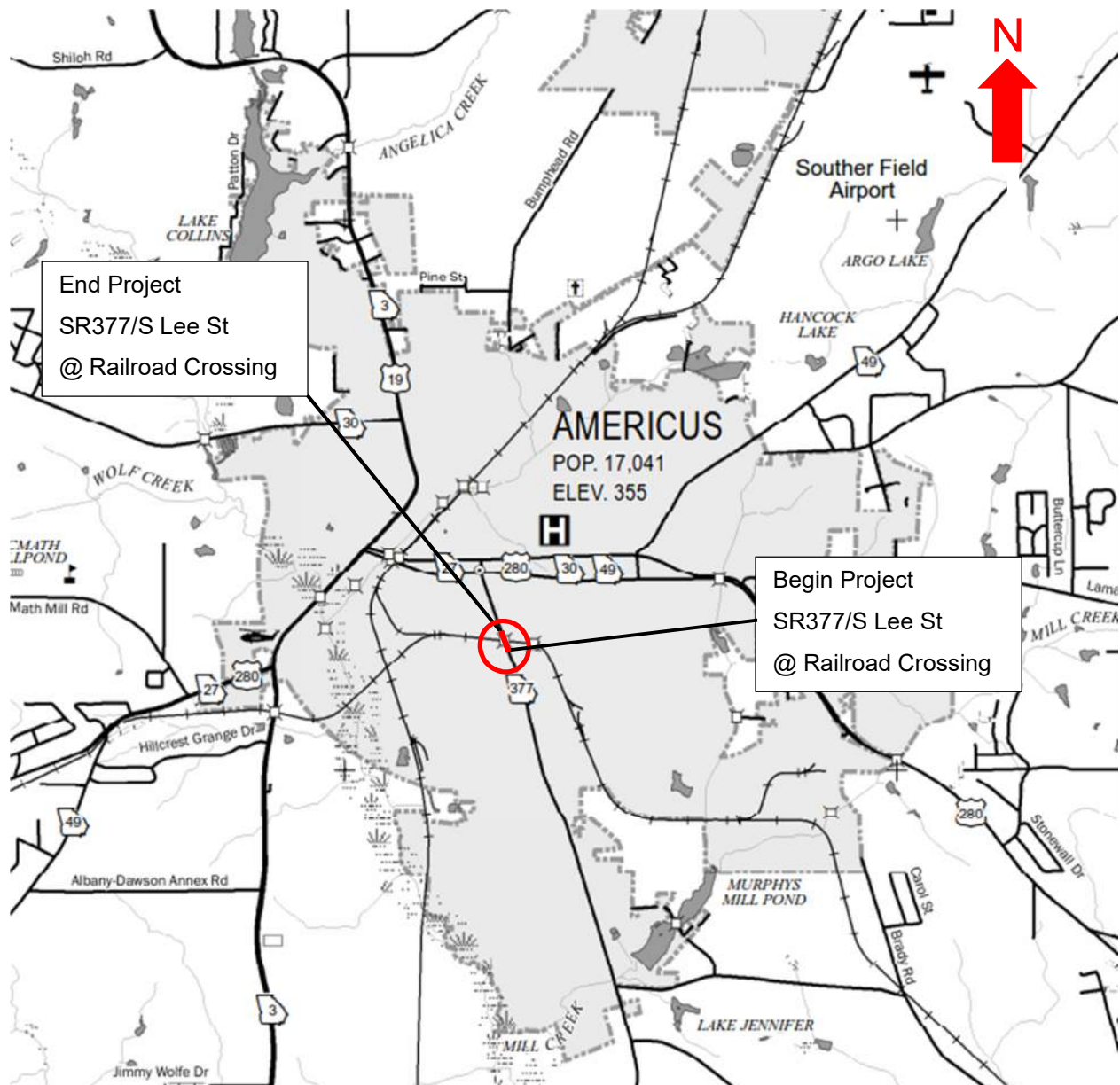
GDOT Chief Engineer

6/6/19

Date

County: Sumter

PROJECT LOCATION MAP



County: Sumter

PLANNING AND BACKGROUND

Project Justification Statement:

The bridge on South Lee Street over Genesee & Wyoming Inc. Railroad, Structure ID 261-0040-0, was built in 1911. The bridge consists of 3 spans of concrete slabs on brick and masonry bents. The design vehicle of this bridge is unknown. The overall condition of this bridge would be classified as poor. The deck and superstructure are in poor condition with heavy concrete deterioration and spalling throughout with exposed reinforcing steel. The substructure is in fair condition with moderate concrete cracking. Due to the age of the structure, the structural integrity of the bridge pertaining to the design vehicle, and the deterioration of the concrete slab units, replacement of this bridge is recommended.

Existing conditions:

SR377/S Lee Street is a two-lane road running southeast-northwest and has a posted speed of 35mph. The bridge consists of approximately 17.5-foot lanes with sidewalks approximately 11 feet wide. There is a clearance of 17'-4" above the railroad. The edge of the bridge contains concrete decorative railings with decorative gas lamp posts on each corner of the bridge. The project is located in a historic district.

Other projects in the area: None

MPO: N/A - Project not in MPO

TIP #: N/A

Congressional District(s): 2

Federal Oversight: ☐ PoDI ☒ Exempt ☐ State Funded ☐ Other

Projected Traffic: AADT 24 HR T: 6 %

Current Year (2016): 8000 Open Year (2021): 8200

Design Year (2041): 9050

Traffic Projections Performed by: HNTB

Date approved by the GDOT Office of Planning: 2/8/17

Functional Classification (Mainline): Urban minor arterial

Complete Streets - Bicycle, Pedestrian, and/or Transit Standard Warrants:

Warrants met: ☐ None ☐ Bicycle ☒ Pedestrian ☐ Transit

Bridge contains sidewalks that are approximately 11 feet wide.

Is this a 3R (Resurfacing, Restoration, & Rehabilitation) Project? ☒ No ☐ Yes

Pavement Evaluation and Recommendations

Initial Pavement Evaluation Summary Report Required?

☒ No

☐ Yes

Initial Pavement Type Selection Report Required?

☒ No

☐ Yes

Feasible Pavement Alternatives:

☒ HMA

☐ PCC

☐ HMA & PCC

DESIGN AND STRUCTURAL

Description of the proposed project:

The project proposes to replace the existing bridge and adjacent roadway and sidewalk located on SR 377/ S Lee Street. New 5 foot to 11 foot sidewalks, with a two-foot buffer, will be added to the site on each side of the new bridge. The proposed bridge will have approximately the same width as the existing bridge. The proposed bridge lanes will taper to tie into the existing pavement on the northwest and southeast ends of the project.

The existing bridge will be replaced with a similar structure that will span the Genesee & Wyoming Inc. Railroad. It will contain two lanes with 10.5-foot to 11-foot wide sidewalks. The proposed bridge will be placed with minimal change in the roadway profile, while providing as much vertical clearance as practical, but at least 17'-6" of vertical clearance. The special design bridge barrier will be constructed to

County: Sumter

match the existing bridge aesthetics. Walls #1 and #2 will on the west side of the proposed bridge will be constructed to match existing condition and tie into the bridge barrier with the same aesthetics. The gas lamps and posts will be removed from the existing bridge and replaced in the same locations on the proposed bridge. Wall #3 will match and replace a small existing brick wall located on the northeast corner of the site.

The total length of the project is approximately 0.1 miles as measured along SR 377/S Lee Street. The northwestern terminus of this proposed project is before Finn Street. The southeastern terminus of this project is just before the intersection of SR 377/ S Lee Street and College Street. The limits of the proposed project are within the city of Americus.

Major Structures:

Structure ID	Existing	Proposed
261-0040-0: SR 377/S Lee St @ Genesee & Wyoming Inc. Railroad	The existing bridge is approximately 44 feet long, approximately 59 feet wide with two lanes and 10.5-foot to 11.5-foot wide sidewalks. There are two parapet walls. The existing bridge was designed for an H-10 design loading. An approximately 10" diameter sewer line on the bridge is located at the level of the bridge deck.	The proposed bridge will be approximately 45 feet long and approximately 59 feet wide, with 2 lanes, 2, sidewalks, 2 parapet walls, and reinstallation of gas lamps. The aesthetics will be matched to the existing bridge.

Accelerated Bridge Construction (ABC) techniques anticipated: ☒ Yes ☐ No

Multiple ABC techniques are applicable to this project, but it is unlikely that they will be utilized due to the small size of the project.

Prefabricated Bridge Elements and Systems (PBES): Utilizing PBES would help to decrease off-site detour and on-site construction times by allowing the existing roadway to remain open to the public until the prefabricated elements are complete and ready to be transported to the site.

Special Conditions: The vertical grade for the proposed bridge must remain as close as possible to the vertical grade on the existing bridge to minimize impacts to the adjacent historic properties. The existing vertical clearance above Heart of Georgia Railroad of 17'-4". Existing bridge plans are not available. Approximate depth of the existing bridge is ~1.17' as determined from the survey. There is a 10" sewer main on the bridge located under the sidewalk at the same approximate elevation as the slab. All existing handrail on and adjacent to the bridge is to be designed to match the existing bridge handrail design and to accommodate the existing gas lights.

Options provided will require different vertical grades to maintain the existing clearance above the tracks. Both options are presented allows for the existing bridge intermediate bents to remain in place and serve as crash walls for the new intermediate bents. This will minimize the construction disruptions around the tracks.

County: Sumter

Mainline Design Features: SR 377

Feature	Existing	Policy	Proposed
Typical Section:	Urban	Urban	Urban
- Number of Lanes	2	N/A	2
- Lane Width(s)	16.5'-20'	11'-12'	16.5'-20'
- Median Width & Type	None	None	None
- Outside Border Area Width	7'-12.5'	10'-16'	7'
- Outside Shoulder Slope	2%	2%	2%
- Inside Shoulder Width	N/A	N/A	N/A
- Sidewalks	5'-11'	5'-6"	5'-11'
- Auxiliary Lanes	None	None	None
- Bike Accommodation	None	None	None
Posted Speed	35 mph	35 mph	35 mph
Design Speed	35 mph	35 mph	35 mph
Minimum Horizontal Curve Radius	None	None	None
Maximum Superelevation Rate	None	None	None
Maximum Grade	3%	7%	4%
Access Control	N/A	N/A	N/A
Design Vehicle	WB-67	WB-67	WB-67
Pavement Type	Asphalt/Concrete	N/A	Asphalt/Concrete

Is the project located on a NHS roadway? ☒ No ☐ Yes

Design Exceptions/Design Variances to FHWA or GDOT Controlling Criteria anticipated:

FHWA or GDOT Controlling Criteria	No	Undetermined	Yes	DE or DV	Approval Date (if applicable)
1. Design Speed	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
2. Design Loading Structural Capacity	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
3. Stopping Sight Distance	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	DV	
4. Horizontal Curve Radius	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
5. Maximum Grade	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
6. Vertical Clearance	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	DV	
7. Superelevation Rate	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
8. Lane Width	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
9. Cross Slope	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
10. Shoulder Width	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

County: Sumter

Design Variances to GDOT Standard Criteria anticipated:

GDOT Standard Criteria	Reviewing Office	No	Undeter- -mined	Yes	Approval Date (if applicable)
1. Access Control	DP&S	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2. Shoulder Width	DP&S	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3. Intersection Sight Distance	DP&S	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4. Intersection Skew Angle	DP&S	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5. Tangent Lengths on Reverse Curves	DP&S	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6. Lateral Offset to Obstruction	DP&S	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
7. Rumble Strips	DP&S	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
8. Safety Edge	DP&S	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
9. Median Usage	DP&S	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
10. Roundabout Illumination Levels	DP&S	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
11. Complete Streets Warrants	DP&S	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
12. ADA Requirements in PROWAG	DP&S	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
13. GDOT Construction Standards	DP&S	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
14. GDOT Drainage Manual	DP&S	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
15. GDOT Bridge & Structural Manual	Bridges	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

VE Study anticipated: ☒ No ☐ Yes ☐ Completed – Date:

Lighting Required: ☐ No ☒ Yes

The existing gas lamps will be removed and reinstalled.

Off-site Detours Anticipated: ☐ No ☐ Undetermined ☒ Yes

If yes: Roadway type to be closed:

☐ Local Road

☒ State Route

Detour Route selected:

☒ Local Road

☒ State Route

District Concurrence w/Detour Route:

☒ No/Pending

☐ Received

The existing bridge along SR 377/ S Lee Street is proposed to be removed and replaced. This will cause a temporary road closure at this location. There will be two detours proposed for this project. Detour one will be for traffic that needs to stay on a state route and detour two is for local traffic around the bridge.

Detour one (state route detour) will have North bound traffic turn west onto S.R. 118, (Smithville Leslie Hwy) then will turn Northwest onto Stanton Dr, then turn North onto S.R. 3/S.R. 19 (M.L.K. Blvd), then turn East onto W Forsyth St to head back into Americus. This detour is approximately 18.4 miles long and will take about 17 minutes. Southbound traffic will take the reverse of this route.

Detour two will be split into detours for North bound and South bound traffic. For traffic traveling South on SR 377/Lee Street, vehicles will turn West on Finn Street, then turn South on Jackson Street, then turn East on W College Street. This will bring them back to SR 377/Lee Street, which will allow them to resume traveling South. This detour is approximately 0.51 miles long and will take approximately two minutes. For traffic traveling North on SR 377/Lee Street, vehicles will turn East on E College Street, then turn North on Barlow Street, then turn West on Brannan Avenue. This will bring them back to SR 377/Lee Street, which will allow them to resume traveling North. This detour is approximately 0.43 miles long and will take about two minutes. The detour was split into Northbound and Southbound detours to reduce the amount of traffic on the small residential roads around the bridge.

The detour plan was presented to the public during the Public Information Open House (PIOH) on May 10th, 2018.

County: Sumter

Transportation Management Plan [TMP] Required: ☐ No ☒ Yes
 If Yes: Project classified as: ☒ Non-Significant ☐ Significant
 TMP Components Anticipated: ☒ TTC ☐ TO ☐ PI

INTERSECTIONS AND INTERCHANGES

Major Interchanges/Intersections: No Major Intersections or Interchanges located on project site.

Intersection Control Evaluation (ICE) Required: ☒ No ☐ Yes

Roundabout Peer Review Required: ☒ No ☐ Yes ☐ Completed – Date:

UTILITY AND PROPERTY

Railroad Involvement:

There is a single railroad track under SR 377 / S Lee Street bridge overpass. The Railroad Property is owned by the State, and leased to Heart of Georgia Railroad Company Inc. (HOG), which was purchased by Genesee & Wyoming Inc. The Railroad Inventory Number is 635346H and the Railroad Milepost is SL-695.49, in the city of Americus. Railroad coordination needs to be with Mr. Brent Azzo, Brent.Azzo@GWRR.com through the Utilities Office.

Utility Involvements:

- GA Power – Power
- Bellsouth/AT&T – Telephone
- MediCom – Telephone/Cable
- City of Americus Water – Water
- City of Americus Sewer – Sewer
- City of Americus Gas – Gas
- Genesee & Wyoming Inc. – Railroad
- SRTA/GRTA – Buses

SUE Required: ☐ No ☒ Yes ☐ Undetermined

Public Interest Determination Policy and Procedure recommended: ☒ No ☐ Yes

Right-of-Way (ROW): Existing width: ~60 ft. Proposed width: ~60 ft.

Required Right-of-Way anticipated: ☒ None ☐ Yes ☐ Undetermined
 Easements anticipated: ☐ None ☐ Temporary ☒ Permanent ☐ Utility ☒ Other

Permanent easements will need to be bought with the right to place utilities

Anticipated total number of impacted parcels: 7
 Displacements anticipated: Businesses: 0
 Residences: 0
 Other: 0
 Total Displacements: 0

Location and Design approval: ☐ Not Required ☒ Required

Impacts to USACE property anticipated: ☒ No ☐ Yes ☐ Undetermined

County: Sumter

CONTEXT SENSITIVE SOLUTIONS

Issues of Concern:

1. The demolition and construction of the proposed bridge will cause a temporary road closure.
2. This project is located in a Historical District. (Historical homes and historical church)
3. Construction of proposed project can cause vibrations that have potential to disturb surrounding historical buildings.
4. Bridge design will need to match existing historic district aesthetic. Gas lamps will be removed and reinstalled onto the proposed bridge.
5. Walls #1 and #2 need to be constructed in kind to match existing conditions for barrier along edge of bridge.
6. Wall #3 will be replaced in kind to match small existing brick wall.

Context Sensitive Solutions Proposed:

1. A detour route has been devised and was shown at a PIOH on May 10th, 2018 in order to gain feedback from the community.
2. All but two properties located on this project site are historical properties. Project design will take into account and minimize impacts where possible to not disturb these properties.
3. In order to retain the same aesthetics as the surrounding historic district, concrete formwork and brick can be utilized along bridge and walls.

ENVIRONMENTAL & PERMITS

Anticipated Environmental Document:

NEPA: ☐ PCE ☒ CE ☐ EA-FONSI ☐ EIS
GEPA: ☐ Type A ☐ Type B ☐ EER ☒ None

Level of Environmental Analysis:

- ☐ The environmental considerations noted below are based on preliminary desktop or screening level environmental analysis and are subject to revision after the completion of resource identification, delineation, and agency concurrence.
- ☒ The environmental considerations noted below are based on the completion of resource identification, delineation, and agency concurrence.

Water Quality Requirements:

MS4 Permit Compliance – Is the project located in a MS4 area? ☒ No ☐ Yes

Is Non-MS4 water quality mitigation anticipated? ☒ No ☐ Yes

County: Sumter

Environmental Permits/Variances/Commitments/Coordination anticipated:

Permit/Variance/Commitment/ Coordination Anticipated	No	Yes	Remarks
1. U.S. Coast Guard Permit	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Forest Service/NPS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3. CWA Section 404 Permit	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4. Tennessee Valley Authority Permit	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5. 33 USC 408 Decision	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6. Buffer Variance	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
7. Coastal Zone Management Coordination	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
8. NPDES	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
9. FEMA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
10. Cemetery Permit	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
11. Other Permits	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
12. Other Commitments	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
13. Other Coordination	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Is a PAR required? ☒ No ☐ Yes ☐ Completed – Date:

Environmental Comments and Information:

NEPA/GEPA: The resource ID phase has been completed with all required agency concurrences received. The project is federally funded with a Categorical Exclusion anticipated as the NEPA documentation level. Historic resources are in close proximity to the bridge location and the existing bridge is eligible. Some level of Section 4(f) evaluation is likely (Individual Section 4(f) anticipated at this time due to anticipated adverse effect to historic district) and will depend on the effect determination made for the eligible resources. Adverse effects to the Americus Historic District need to be avoided to avoid the need for an Individual Section 4(f) evaluation which would likely add approximately 12 months to the project schedule.

Ecology: An Ecology Survey Report has been completed and forwarded to FHWA on 10/17/17. No resources were identified.

History: The History Survey Report has been accepted by GDOT-OES with SHPO concurrence received on April 6, 2018. Two resources were identified: Resource 1 – Americus Historic District and Resource 2 – Lee Street Bridge. An adverse effect would occur to the bridge due to its proposed removal. Adverse effects are also anticipated to the historic district due to the bridge removal and relocation of contributing historic walls.

Archeology: The Archaeology Survey has been completed with no resources found. The Negative Findings Short Form was completed on 11/6/2017.

Air Quality:

Is the project located in an Ozone Non-attainment area? ☒ No ☐ Yes
Is a Carbon Monoxide hotspot analysis required? ☒ No ☐ Yes

Noise Effects: The project is not raising the bridge or changing the horizontal alignment of the bridge. At this time, it is anticipated that the project will qualify as a Type III project with no noise mitigation required.

Public Involvement: A stake holder meeting took place on April 10th, 2018. A PIOH took place the following month on May 10th, 2018. No further public involvement efforts are anticipated at this time.

Major stakeholders: Traveling public (corridor is a State Route); Calvary Episcopal Church; adjacent Americus residential areas; Historic Preservation Community; and Genesee & Wyoming Inc.; City of Americus and Sumter County.

County: Sumter

CONSTRUCTION

Issues potentially affecting constructability/construction schedule:

This project proposes to replace the existing bridge over the Genesee & Wyoming Inc. Railroad, which has about three trains per day that travel through this corridor. The construction of the proposed project has the potential to produce both staging and detour issues. The project limits are within a historical district. All but two properties located within the project limits are considered historical properties. These two properties are shown outlined in the outward facing ESA lines. There are homes located close to the existing bridge as well as a historic church that are used by local residents. Construction will require the time of closure of this bridge to be minimal. Due to the close proximity of historic properties construction techniques should preclude the use of driven pile foundations due to the vibrations associated with pile driving. Techniques discussed in the accelerated bridge construction (ABC) section will be utilized to decrease construction of the proposed bridge. Construction of this project will need to take into account local church events and school bus routes during project construction and road closures. During road closure emergency vehicles will need a clear route and notification when the bridge will be closed during construction.

Bridge Type Alternates:

1. **3-Span bridge consisting of AASHTO 36" X 12" Solid Slab Beams.** The shallow depth of the beams will help minimize the grade change required to achieve the required vertical clearance over the railroad. The 3-span configuration will help achieve vertical clearance while minimizing the grade change affects to the adjacent properties.
2. **3-Sided Precast Culvert Sections.** (See Attachment 14) The geometry of these structures will help minimize the grade change required to achieve the required vertical clearance. The precast units will also help minimize the required construction time; however, this alternate does not meet the project needs.
3. **Single-Span 21inch deep cored slabs.** This alternate proposed to replace the bridge with minimal change in roadway profile but will provide a minimum of 17'-6" vertical clearance. This will allow for faster construction.
4. **No-Build Option** - The No-Build Option would eliminate impacts to the surrounding historic properties while maintaining the current clearance over Heart of Georgia Railroad.

Early Completion Incentives recommended for consideration: ☒ No

☐ Yes

COORDINATION, ACTIVITIES, RESPONSIBILITIES, AND COSTS

Federal Aviation Administration (FAA) coordination anticipated: ☐ No

☒ Yes

Jimmy Carter Regional and Lowell Field are within a 5-mile radius of the project.

Initial Concept Meeting: N/A

Concept Meeting: July 26, 2018

Other coordination to date:

Kick-off Meeting: February 9th, 2017

Interview with Mayor of Americus: May 24th, 2017

Stake Holder Meeting: April 10, 2018

Public Involvement Open House (PIOH): May 10, 2018

County: Sumter

Project Activity	Party Responsible for Performing Task(s)
Concept Development	Jacobs
Design	GDOT Engineering Services/Consultant
Right-of-Way Acquisition	GDOT Right-of-Way
Utility Coordination (Preconstruction)	GDOT Utilities
Utility Relocation (Construction)	Utility Owners
Letting to Contract	GDOT Construction
Construction Supervision	GDOT Construction
Providing Material Pits	Contractor
Providing Detours	Contractor
Environmental Studies, Documents, & Permits	GDOT Environmental Services/Consultant
Environmental Mitigation	GDOT Environmental Services
Construction Inspection & Materials Testing	GDOT Construction

Project Cost Estimate Summary and Funding Responsibilities:

	PE Activities		ROW	★ Reimbursable Utilities	CST*	Total Cost
	PE Funding	Section 404 Mitigation				
Funded By	GDOT		GDOT	GDOT	GDOT	
\$ Amount	\$500,000	\$0.00	\$205,000**	\$392,600	\$1,650,361	\$2,563,461
Date of Estimate			09/21/2018	08/01/2018	01/08/2019	

*CST Cost includes: Construction, Engineering and Inspection, Contingencies and Liquid AC Cost Adjustment.

**This is the programmed estimate and the project manager has requested an estimate.

★ Railroad and Reimbursable utilities totaled

County: Sumter

ALTERNATIVES DISCUSSION

Alternative selection:

Preferred Alternative: This alternative proposes to replace the bridge with minimal change in the roadway profile, while providing as much vertical clearance as practical, but at least 17'-6" of vertical clearance.			
Estimated Property Impacts:	7	Estimated Total Cost:	\$2,563,461
Estimated ROW Cost:	\$205,000	Estimated CST Time:	6-9 Months
Rationale: This alternative was selected because it has the smallest impact while still replacing the bridge. The current bridge is deficient and has a poor rating. Minimal walls and/or fill slopes will stay off of or minimally impact existing historical properties.			

No-Build Alternative: This alternative proposes no replacement of the existing bridge.			
Estimated Property Impacts:	0	Estimated Total Cost:	\$0
Estimated ROW Cost:	\$0	Estimated CST Time:	N/A
Rationale: The No-Build alternative was not selected because it does not meet the goals outlined in the Project Justification.			

Alternative 1: <i>This alternative proposes to raise the clearance of the bridge to 23'.</i>			
Estimated Property Impacts:	10	Estimated Total Cost:	\$3,890,135
Estimated ROW Cost:	\$292,857	Estimated CST Time:	6-9 Months
Rationale: This alternative was not selected because of the increase in cost and impacts to surrounding historical properties. This alternative would require large walls in front of homes and the historic church than the other alternates.			

Alternative 2: <i>This alternative proposes the use of the 3-Sided Precast Culvert.</i>			
Estimated Property Impacts:	9	Estimated Total Cost:	\$3,857,425
Estimated ROW Cost:	\$248,930	Estimated CST Time:	6-9 Months
Rationale: This alternative was not selected because of the increase in cost and impacts to surrounding historical properties. This alternative would require large walls in front of homes and the historic church than would be required by the preferred alternate.			

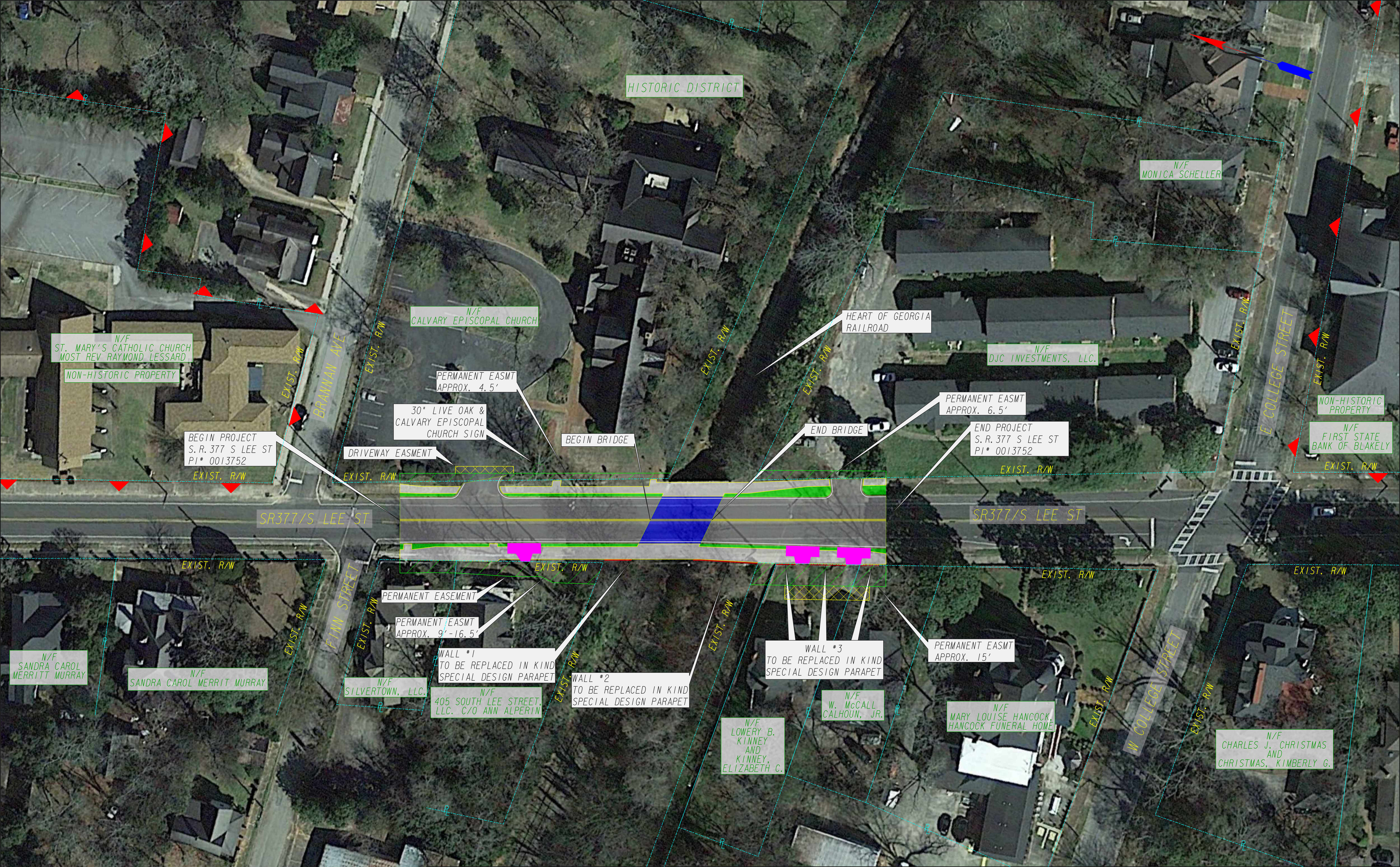
County: Sumter

LIST OF ATTACHMENTS/SUPPORTING DATA

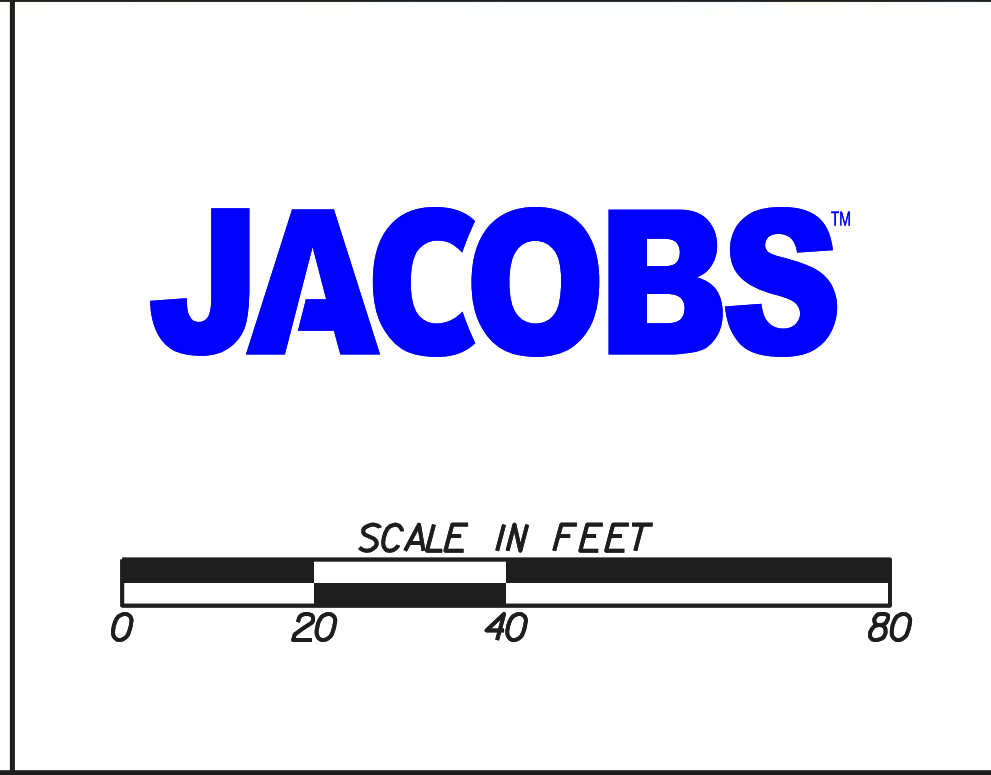
1. Concept Layout
2. Typical sections
3. Detailed Cost Estimates:
 - a. Construction
 - b. Completed Liquid AC Cost Adjustment forms
 - c. Right-of-Way
 - d. Utilities, to include the Concept Utility Report, and Railroad
4. Crash Summary
5. Design Traffic diagrams
6. Traffic Report
7. Bridge Report
8. MS4 Concept Report Summary
9. Kick-off Meeting Minutes
10. Stakeholder Comment Summary
11. Public Involvement Open House Comment Summary
12. Concept Meeting Minutes
13. Detour Displays
14. Bridge Alternates

Attachment # 1

Concept Layout



SR 377 AT HOG#635346H IN AMERICUS
CONCEPT LAYOUT
P.I. NO. 0013752
DECEMBER 8, 2019

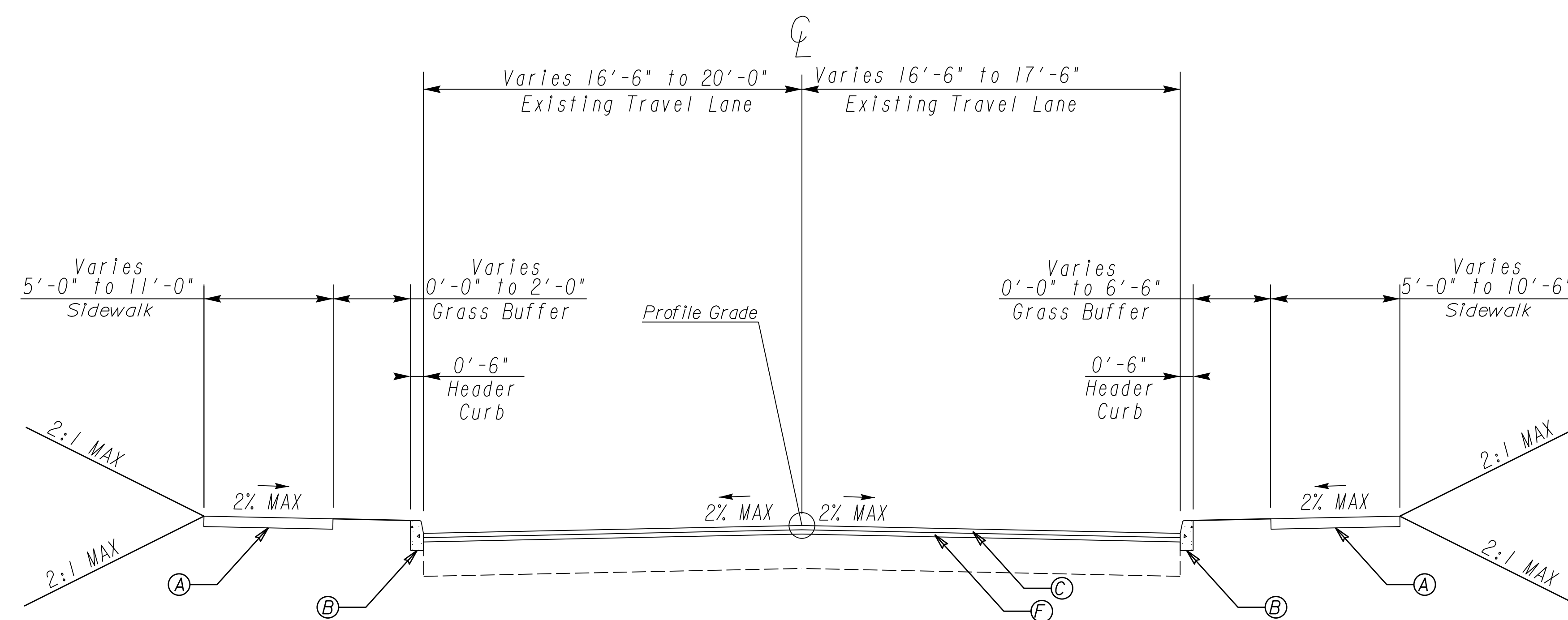


GEORGIA
DEPARTMENT
OF
TRANSPORTATION

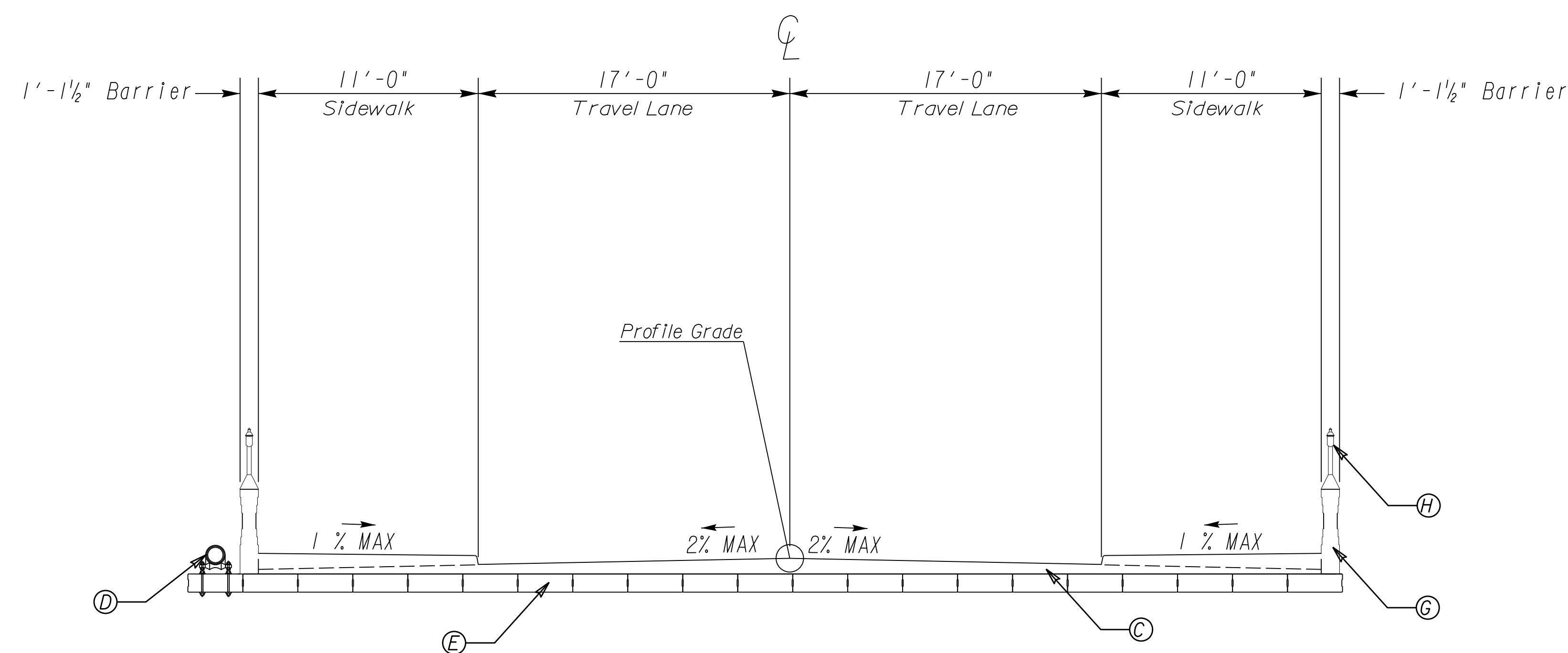
LEGEND			
	EXISTING PROPERTY LINE		PROPOSED BRIDGE
	EXISTING RIGHT OF WAY LINE		PROPOSED SIDEWALK
	HISTORICAL BOUNDARY		PROPOSED 2' GRASS STRIP
	PROPOSED EASEMENT		PROPOSED WALL
	PROPOSED DRIVEWAY EASEMENT		

Attachment # 2

Typical Sections



ROADWAY TYPICAL



BRIDGE TYPICAL

- | | |
|-----|---|
| (A) | CONCRETE SIDEWALK, 4 IN |
| (B) | CONCRETE HEADER CURB. 6IN. TP2 |
| (C) | RECYCLED ASPH CONC 9.5 MM SUPERPAVE,
TYPE 11, GP 2 ONLY, INCL BITUM MATL
& H LIME |
| (D) | 10" DIA. SEWER MAIN |
| (E) | 12" X 36" BOX BEAMS |
| (F) | VARIABLE DEPTH MILLING & LEVELING |
| (G) | SPECIAL DESIGN PARAPET (MATCH EXISTING) |
| (H) | GAS LAMP |

Attachment # 3

Detailed Cost Estimates

County: Sumter

STATE HIGHWAY AGENCY

DATE : 01/04/2019

PAGE : 1

JOB DETAIL ESTIMATE

=====

JOB NUMBER : 0013752 - 2

SPEC YEAR: 13

DESCRIPTION: SR 377 AT HOG#635346H IN AMERICUS - PREFERED ALT

COST GROUPS FOR JOB 0013752 - 2

COST GROUP	DESCRIPTION	QUANTITY	PRICE	AMOUNT	ACTIVE?
EROC	EROSION CONTROL (SY)	1.000	50000.00000	50000.00	Y
STRO	STRUCTURES, OTHER (SF)	2655.000	130.00000	345150.00	Y
SIGNPCTO	SIGNS (PERCENT OF JOB)	4230.497	4.23111	17899.70	Y
MISC	MISCELLANEOUS (LS) - GAS LAMPS	1.000	10000.00000	10000.00	Y
ACTIVE COST GROUP TOTAL				423049.70	
INFLATED COST GROUP TOTAL				423049.70	

ITEMS FOR JOB 0013752 - 2

LINE	ITEM	ALT	UNITS	DESCRIPTION	QUANTITY	PRICE	AMOUNT
0005	402-3103		TN	REC AC 9.5 MM SP,TPII,GP2, INCL BM & HL	78.000	105.06	8195.06
0010	310-1101		TN	GR AGGR BS CRS, INCL MATL	105.000	52.10	5470.80
0015	413-0750		GL	TACK COAT	57.000	2.52	143.64
0025	441-5002		LF	CONC HEADER CURB, 6, TP 2	755.000	27.92	21082.43
0030	441-0104		SY	CONC SIDEWALK, 4 IN	640.000	67.51	43212.68
0035	441-4020		SY	CONC VALLEY GUTTER, 6IN	90.000	53.91	4852.05
0040	668-2100		EA	DROP INLET, GP 1	4.000	2394.52	9578.09
0045	550-1180		LF	STM DR PIPE 18,H 1-10	100.000	59.61	5961.11
0050	318-3000		TN	AGGR SURF CRS	100.000	37.70	3770.24
0055	500-3110		LF	CLASS A CONCRETE,TYPE P1,RETAINING WAL 1&2	83.000	490.00	40670.00
0065	210-0100		LS	GRADING COMPLETE - PI - 00013752	1.000	100000.00	50000.00
0070	150-1000		LS	TRAFFIC CONTROL - PI - 00013752	1.000	250000.00	250000.00
0075	540-1101		LS	REM OF EX BR, STA NO - PI - 00013752	1.000	160000.00	80000.00
0080	433-1100		SY	REF CONC APPR SL/INCL CURB	245.000	195.23	47831.35
0090	402-1812		TN	RECYL AC LEVELING,INC BM&HL	130.000	107.91	14028.47

County: Sumter

0095	630-0600	LF	MBRW PRECAST COPING	60.000	100.00	6000.00
0100	432-5010	SY	MILL ASPH CONC PVMT,VARB DEPTH	127.000	12.49	1586.90
0105	441-4020	SY	CONC VALLEY GUTTER, 6 IN	90.000	53.91	4852.05
0110	500-2110	LF	CONCRETE PARAPET, SPCL DES	170.000	350.00	59500.00

ITEM TOTAL						762946.89
INFLATED ITEM TOTAL						762946.89
TOTALS FOR JOB 0013752 - 2						

ESTIMATED COST:						1363896.07

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE P.I. No. **0013752** OFFICE

PROJECT DESCRIPTION

SR 377

DATE **January 21, 2019**

From: **Kimberly W. Nesbitt, State Program Delivery Engineer**

To: Lisa L. Myers, State Project Review Engineer
via Email Mailbox: CostEstimatesandUpdates@dot.ga.gov

Subject: **REVISIONS TO PROGRAMMED COSTS**

MGMT LET DATE

PROJECT MANAGER **Derrick Cameron**

MGMT ROW DATE

PROGRAMMED COSTS (TPro W/OUT INFLATION)

LAST ESTIMATE UPDATE

CONSTRUCTION \$ **1,092,542.00**

DATE

RIGHT OF WAY \$ **260,100.00**

DATE

6/21/2017

UTILITIES \$

DATE

REVISED COST ESTIMATES

CONSTRUCTION* \$ **1,650,360.94**

RIGHT OF WAY \$ **205,000.00**

UTILITIES \$ **392,600.00**

*Cost Contains **15** % Contingency

REASONS FOR COST INCREASE AND CONTINGENCY JUSTIFICATION:

There is a 25% increase in the construction cost. This is due to the increase unit cost of the square footage of the proposed bridge and removal of the existing bridge. The grading complete was also deemed low and doubled.

CONTINGENCY SUMMARY

A. CONSTRUCTION COST ESTIMATE:	\$	1,363,897.00	Base Estimate From CES	
B. ENGINEERING AND INSPECTION (E & I):	\$	68,194.85	Base Estimate (A) x	5 %
C. CONTINGENCY:	\$	214,813.78	Base Estimate (A) + E & I (B) x	15 %
			See % Table in "Risk Based Cost Estimation" Memo	
D. TOTAL LIQUID AC ADJUSTMENT:	\$	3,455.31	Total From Liquid AC Spreadsheet	
E. CONSTRUCTION TOTAL:	\$	1,650,360.94	(A + B + C + D = E)	

REIMBURSABLE UTILITY COSTS

UTILITY OWNER	REIMBURSABLE COST
Ga Power	\$ 240,000.00
Bellsouth/AT&T	\$ -
MediaCom	\$ -
City of Americus Water	\$ -
City of Americus Sewer	\$ -
City of Americus Gas	\$ -
Heart of Georgia Railroad Inc.	\$ 152,600.00
TOTAL	\$ 392,600.00

ATTACHMENTS: (File Copy in the Project Cost Estimate Folder)

CES

Consultant Validation of Final QC/QA for Construction Cost Estimate Used in This Revision To Programmed Costs

COMPANY NAME: Jacobs

VALIDATION OF FINAL QC/QA

PRINTED NAME: Hatem Aly

TITLE: Project Manager

SIGNATURE:

Hatem F. ALY

DATE: 1/21/2019

PROJ. NO.
P.I. NO. 0013752
DATE 8/3/2018

CALL NO. 0/00/2016

INDEX (TYPE)	DATE	INDEX
REG. UNLEADED	Aug-18	\$ 2.729
DIESEL		\$ 3.078
LIQUID AC		\$ 541.00

Link to AC Index:

<http://www.dot.ga.gov/PS/Materials/AsphaltFuelIndex>

LIQUID AC ADJUSTMENTS

PA=[((APM-APL)/APL)]xTMTxAPL

Asphalt

Price Adjustment (PA)				3375.84	\$	3,375.84
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	\$	865.60		
Monthly Asphalt Cement Price month project let (APL)			\$	541.00		
Total Monthly Tonnage of asphalt cement (TMT)				10.4		

ASPHALT	Tons	%AC	AC ton
Leveling	130	5.0%	6.5
12.5 OGFC		5.0%	0
12.5 mm		5.0%	0
9.5 mm SP	78	5.0%	3.9
25 mm SP		5.0%	0
19 mm SP		5.0%	0
	208		10.4

BITUMINOUS TACK COAT

Price Adjustment (PA)				79.47	\$	79.47
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	\$	865.60		
Monthly Asphalt Cement Price month project let (APL)			\$	541.00		
Total Monthly Tonnage of asphalt cement (TMT)				0.244820753		

Bitum Tack

Gals	gals/ton	tons
57	232.8234	0.24482075

BITUMINOUS TACK COAT (surface treatment)

Price Adjustment (PA)				0	\$	-
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	\$	865.60		
Monthly Asphalt Cement Price month project let (APL)			\$	541.00		
Total Monthly Tonnage of asphalt cement (TMT)				0		

Bitum Tack	SY	Gals/SY	Gals	gals/ton	tons
Single Surf. Trmt.		0.20	0	232.8234	0
Double Surf.Trmt.		0.44	0	232.8234	0
Triple Surf. Trmt		0.71	0	232.8234	0

TOTAL LIQUID AC ADJUSTMENT \$ 3,455.31

GEORGIA DEPARTMENT OF TRANSPORTATION
PRELIMINARY ROW COST ESTIMATE SUMMARY

Date: 9/21/2018
Revised:

Project: SR 377 @ HOG #635346H Americus
County: Sumter
PI: 13752

Description: SR 377 Bridge Replacement @ Heart of Georgia Railroad Americus
Project Termini:

Parcels: 5

Existing ROW: Varies
Required ROW: Varies

Land and Improvements \$63,825.00

Proximity Damage \$0.00

Consequential Damage \$0.00

Cost to Cures \$0.00

Trade Fixtures \$8,500.00

Improvements \$28,300.00

Valuation Services \$34,062.50

Legal Services \$40,875.00

Relocation \$10,000.00

Demolition \$10,500.00

Administrative \$45,000.00

TOTAL ESTIMATED COSTS \$204,262.50

TOTAL ESTIMATED COSTS (ROUNDED) \$205,000.00

Preparation Credits	Hours	Signature

Prepared By:

Approved By:

E. D. O. + N
[Signature]

CG#: 2403

CG#: 261283

9-21-18
(DATE) 10/1/18

NOTE: No Market Appreciation is included in this Preliminary Cost Estimate

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE

Project No: N/A
County Sumter
P.I. # 0013752

Office: District 3
Date: 7/27/2018

Description: **Bridge Replacement - SR 377 @ HOG #635346H in Americus**

FROM Scott K. Parker, District Utilities Manager

TO Derrick Cameron, Project Manager

SUBJECT **PRELIMINARY UTILITY COST ESTIMATE**

A review of utilities located on the above referenced project has been conducted. Listed below is a breakdown of the anticipated reimbursable and non-reimbursable cost.

<u>Utility Owner</u>	<u>Reimbursable</u>	<u>Non-Reimbursable</u>	<u>Estimate Based on</u>
GA Power	\$240,000.00	\$0.00	Site Visit / Available Drawings
Bellsouth/AT&T	\$0.00	\$54,500.00	Site Visit / Available Drawings
MediaCom	\$0.00	\$14,000.00	Site Visit / Available Drawings
City of Americus Water	\$0.00	\$70,000.00	Site Visit / Available Drawings
City of Americus Sewer	\$0.00	\$87,500.00	Site Visit / Available Drawings
City of Americus Gas	\$0.00	\$49,000.00	Site Visit / Available Drawings
	\$0.00	\$0.00	
	\$0.00	\$0.00	
	\$0.00	\$0.00	
	\$0.00	\$0.00	
Total 0.00%	\$ 240,000.00	\$ 275,000.00	
Department Responsibility 100.00%	\$ 240,000.00	\$ 0.00	
Local Sponsor Responsibility 0.00%	\$ 0.00	\$ 0.00	PFA Dated N/A with N/A

** Indicates Potential Utility Aid Request from Local Gov't


Estimate is based on the best available information at the current stage, unforeseen prior rights information may be provided by the Utility Company at a later date that could cause some non-reimbursable costs to shift to the reimbursable cost column.

If additional information is needed, please contact Bobby Watson at 706-646-7661.

cc: Yulonda Pride-Foster, State Utilities Preconstruction Manager
Patrick Allen, State Utilities Administrator
Adam Smith, District Preconstruction Engineer

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE: PI #0013752, Sumter County **OFFICE:** State Utilities Office
FROM:  Patrick Allen, State Utilities Administrator **DATE:** July 30, 2018
TO: Kimberly Nesbitt, State Program Delivery Administrator
Attn: Derrick Cameron, Project Manager
SUBJECT: PRELIMINARY RAILROAD COST FOR SURFACE WORK (CONCEPT ESTIMATE)

A review of railroads located within the project limits on the above referenced project has been conducted based on the proposed draft concept report. Listed below is a breakdown of the estimated railroad costs:

<u>FACILITY OWNER</u>	<u>NON-REIMBURSABLE</u>	<u>REIMBURSABLE</u>
Heart of Georgia Railroad Inc.		
– P.E. review cost for bridge over railroad	\$0.00	\$ 36,800.00-GDOT
– Const. inspection cost for bridge over railroad	\$0.00	\$ 115,800.00-GDOT
Total Reimbursement Cost:	\$0.00	\$ 152,600.00

Total railroad surface work reimbursable cost for the above project is estimated to be:
\$152,600.00

Please note that this amount does not include other reimbursable utility costs that may be associated with this project. This project is GDOT funded.

If you have any questions, please contact Jill Franks, (404) 631-1370, jfranks@dot.ga.gov or Marcela Coll, (404)631-1372 mcoll@dot.ga.gov.

PA:jlf

cc: Yulonda Pride-Foster, Utilities Preconstruction Manager
Angela Robinson, State Financial Management Administrator
Scott Parker, District 3 Utilities Manager
Kevin Cowan, Utilities Railroad Crossing Manager

Concept Utility Report

Project Number: N/A

District: 3

County: Sumter

Prepared by: Bobby Watson

P.I. # 0013752

Date: 7/27/2018

Project Description: Bridge Replacement - SR 377 @ HOG #635346H in Americus

The information provided herein has been gathered from Georgia811 and/or field visits and serves as an estimate. Nothing contained in this report is to be used as a substitute for 1st Submission or SUE.

Are SUE services recommended? YES Level: ☐ A ☒ B ☐ C ☐ D

Public Interest Determination (PID): ☐ Automatic ☐ Mandatory ☐ Consideration
☐ No Use ☒ Exempt

Is a separate utility funding phase recommended? No

Existing Facilities: GA Power pole line running longitudinal through project on east side of existing road. This pole line includes MediaCom coax and fiber lines. Bellsouth/AT&T pole line running longitudinal through project on west side of existing road and includes large copper phone lines and fiber lines. City of Americus Gas, Water, and Sewer throughout project. Gas and Sewer is attached to existing bridge.

Potential Project (Schedule/Budget) Impacts: None

Capital Improvement Projects (Utilities) Anticipated in the Area: None

Project Specific Recommendations for Avoidance/Mitigation: None

Right of Way Coordination Concerns: Please purchase any permanent easements with the rights to place utilities.

Environmental Coordination: None

Additional Remarks: None

Attachment # 4

Crash Summary

Crash Summary

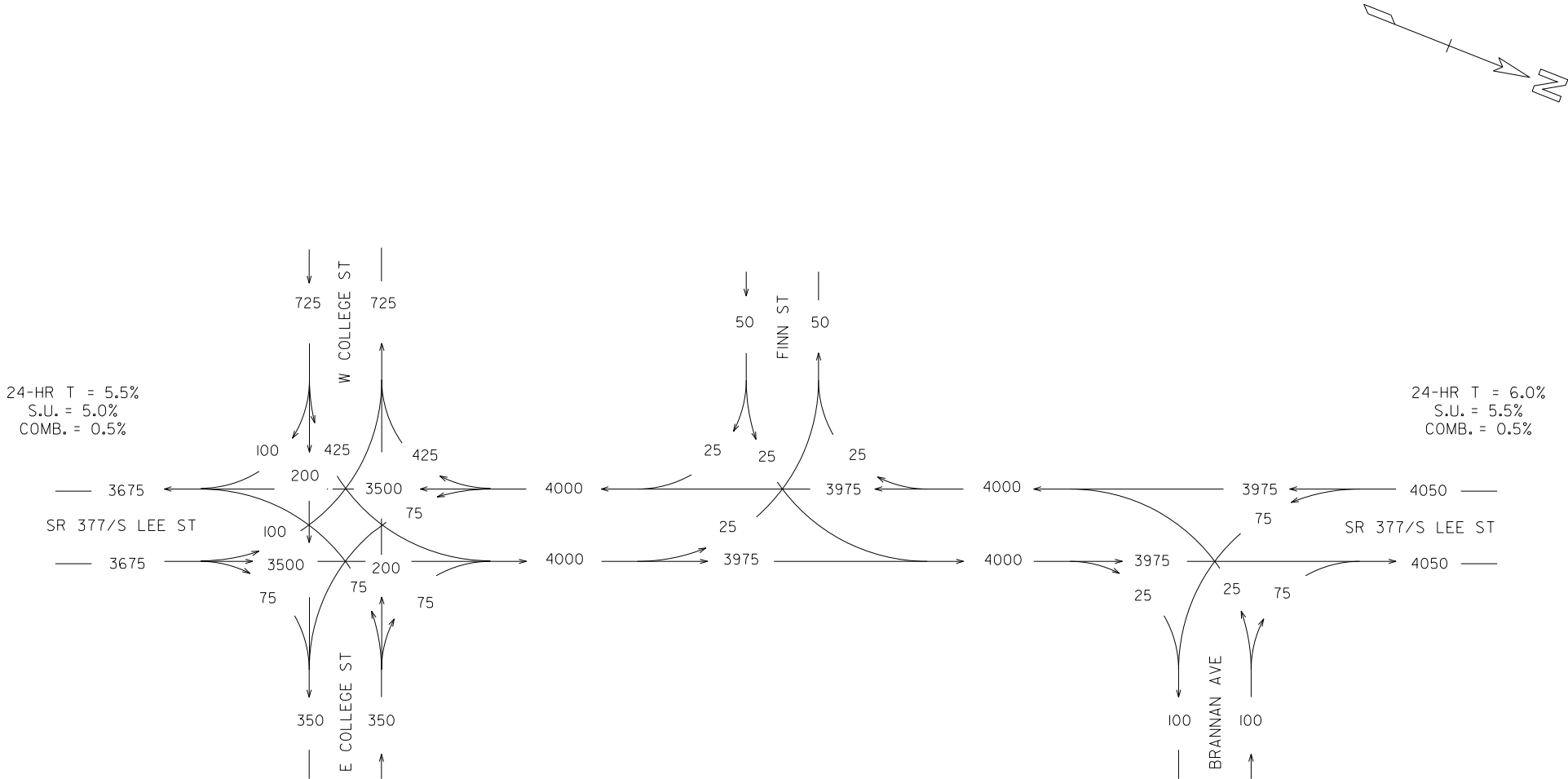
Count of AccidentNo	Column Labels						
Row Labels	2013	2014	2015	2016	2017	Grand Total	
Angle		0	2	0	0	1	3
Head On		0	0	1	0	0	1
Rear End		1	2	4	2	3	12
Sideswipe-Opposite Dire		0	0	0	1	0	1
Sideswipe-Same Directic		1	0	0	0	0	1
Grand Total		2	4	5	3	4	18

Count of AccidentNo	Column Labels						
Row Labels	2013	2014	2015	2016	2017	Grand Total	
Non-Injury		1	4	2	3	2	12
Injury		1	0	3	0	2	6
Grand Total		2	4	5	3	4	18



Attachment # 5

Design Traffic Diagrams



AJP 2/2017

P.I. #0013572
SUMTER COUNTY
BRIDGE REPLACEMENT
ON SR 377 FROM
E COLLEGE ST TO BRANNAN AVE

2016 EXISTING
AADT = 000



191 PEACHTREE ST, NE
SUITE 3300
ATLANTA, GEORGIA 30303

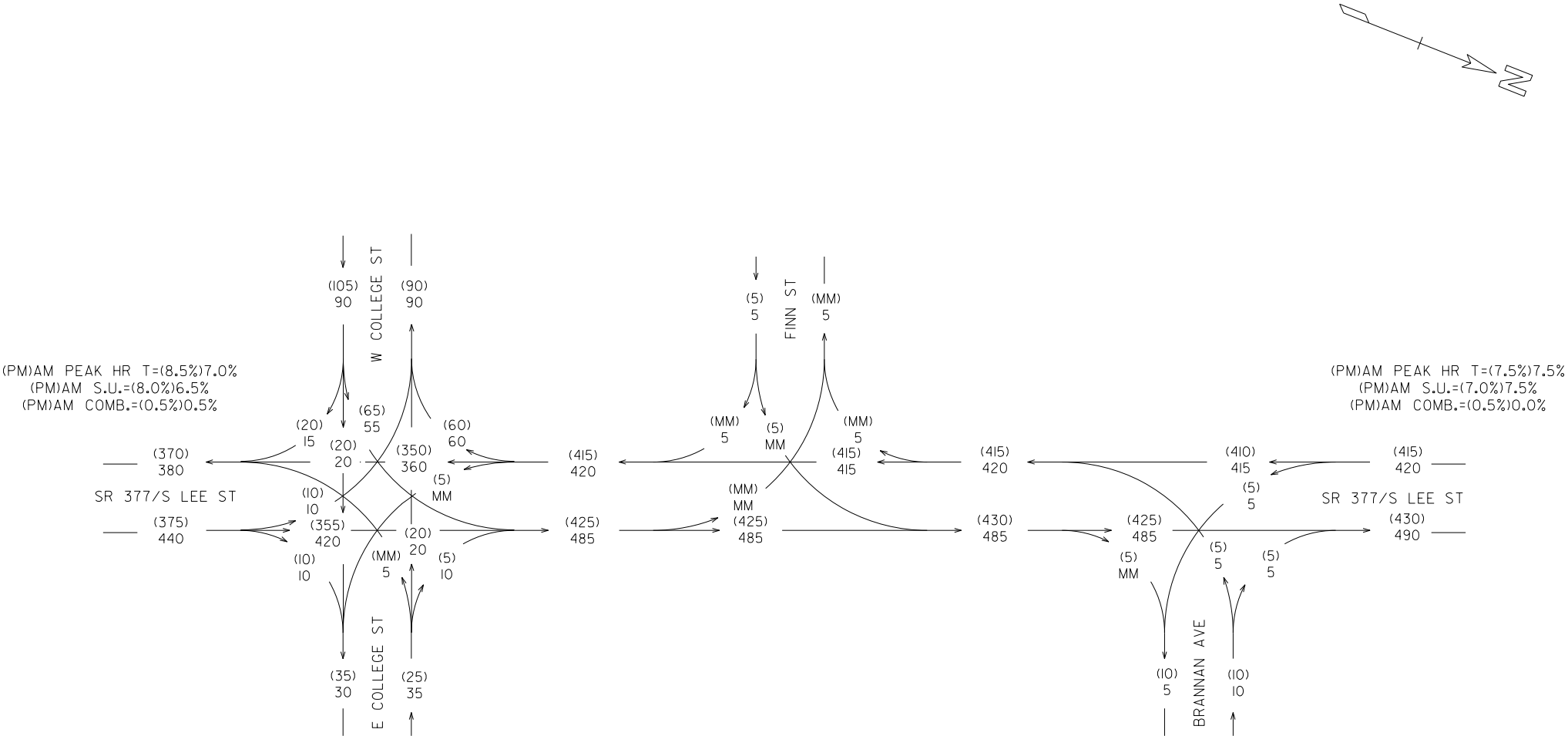


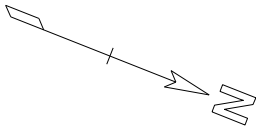
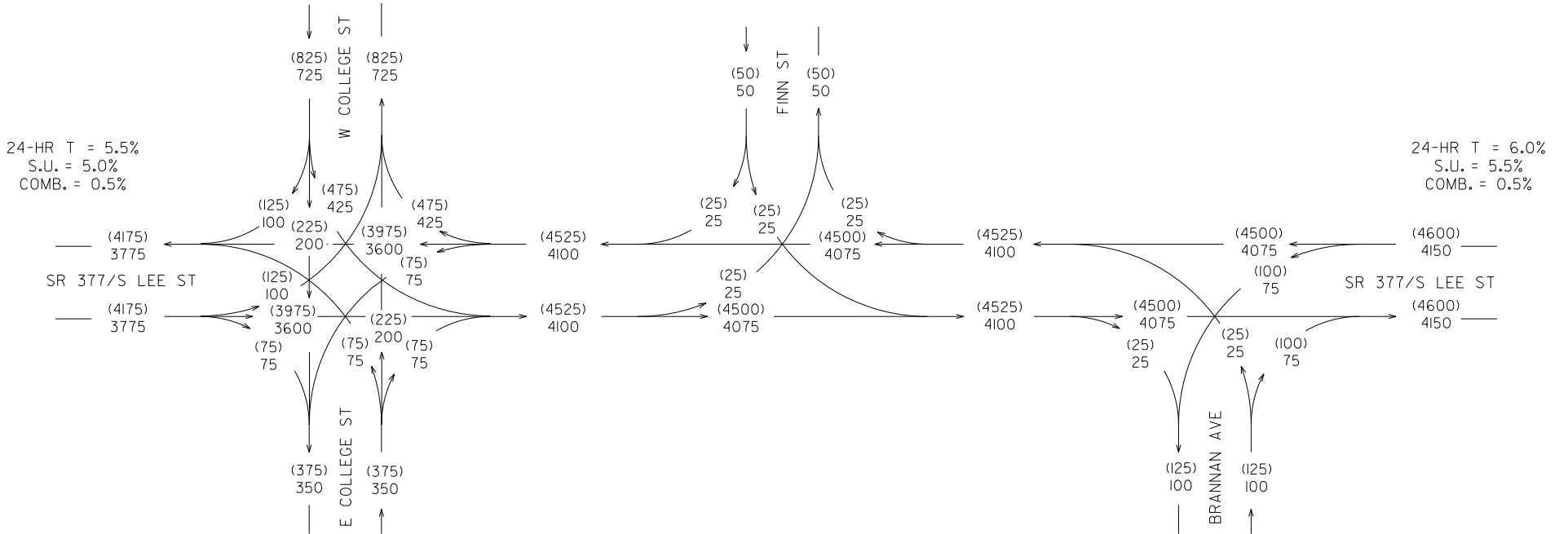
REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION

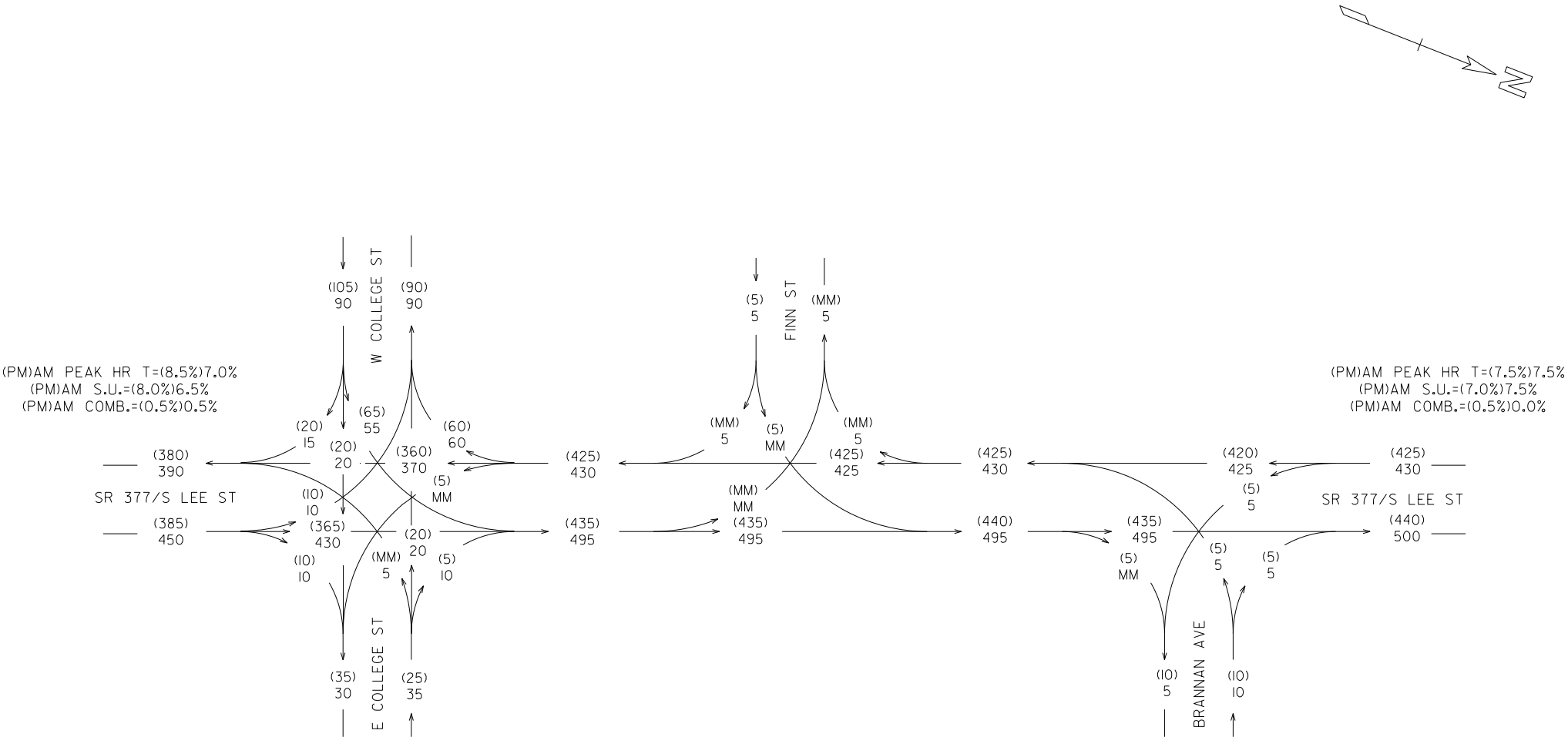
TRAFFIC DIAGRAM

DRAWING No.
10-01





AJP 2/2017



AJP 2/2017

P.I. #0013572
SUMTER COUNTY
BRIDGE REPLACEMENT
ON SR 377 FROM
E COLLEGE ST TO BRANNAN AVE

BUILD/NO-BUILD
2021DHV PM = (000)
2021DHV AM = 000



191 PEACHTREE ST, NE
SUITE 3300
ATLANTA, GEORGIA 30303

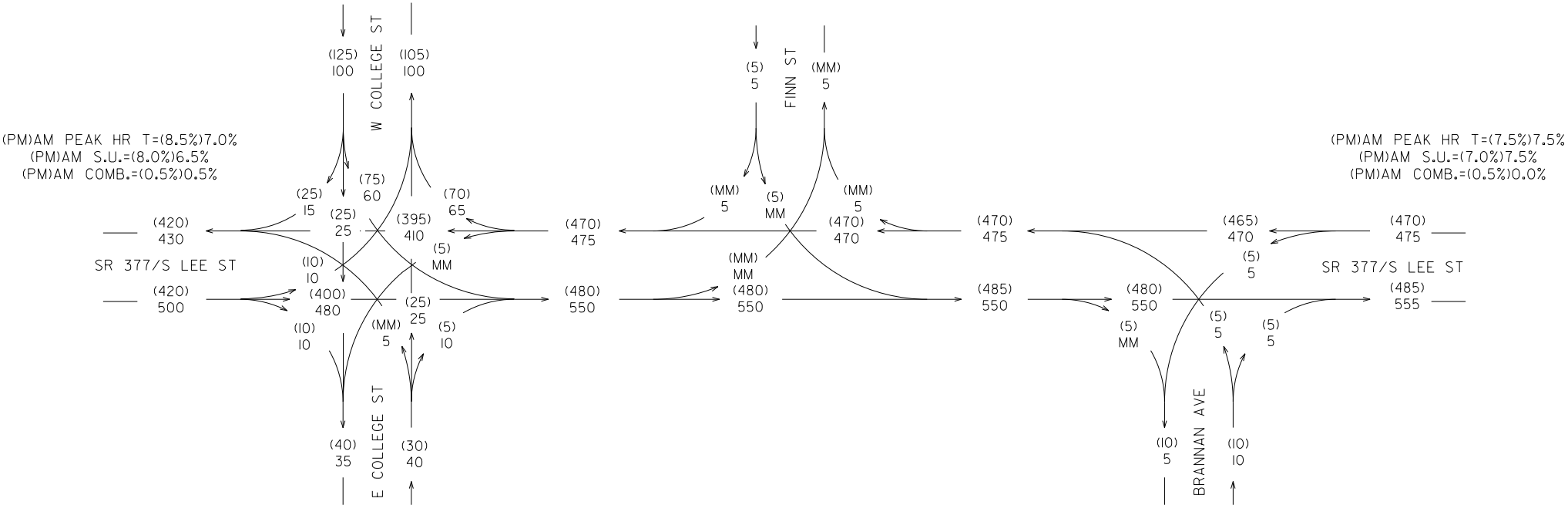


REVISION DATES

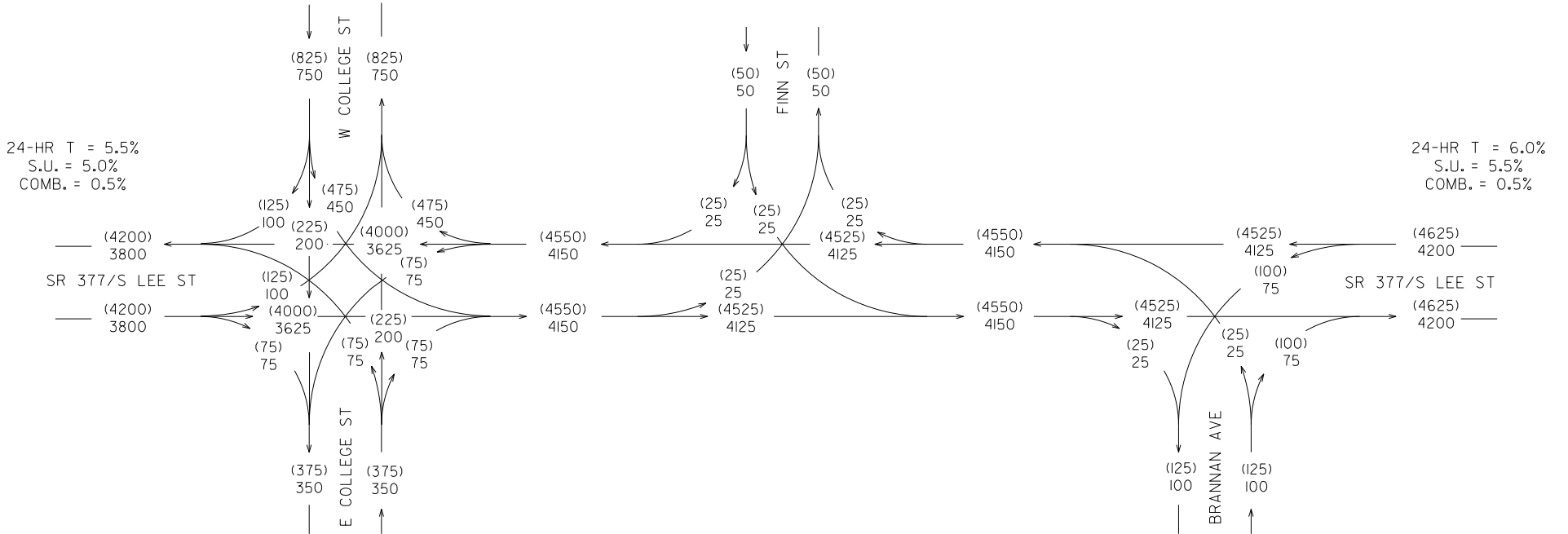
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC DIAGRAM

DRAWING No.
10-04



AJP 2/2017



AJP 2/2017

P.I. #0013572
SUMTER COUNTY
BRIDGE REPLACEMENT
ON SR 377 FROM
E COLLEGE ST TO BRANNAN AVE

BUILD/NO-BUILD
2043 AADT = (000)
2023 AADT = 000



191 PEACHTREE ST, NE
SUITE 3300
ATLANTA, GEORGIA 30303

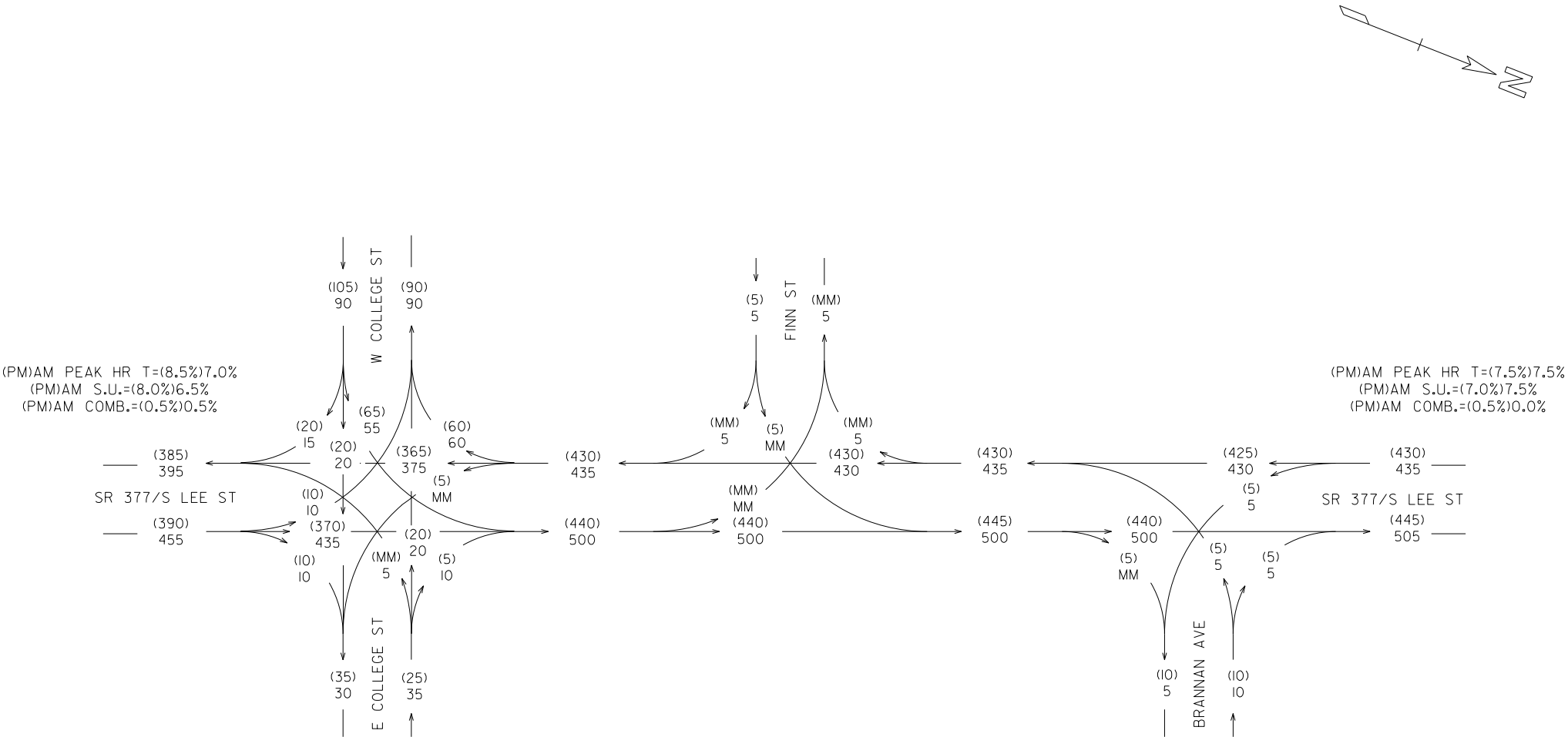


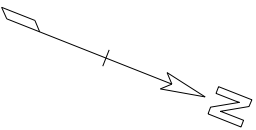
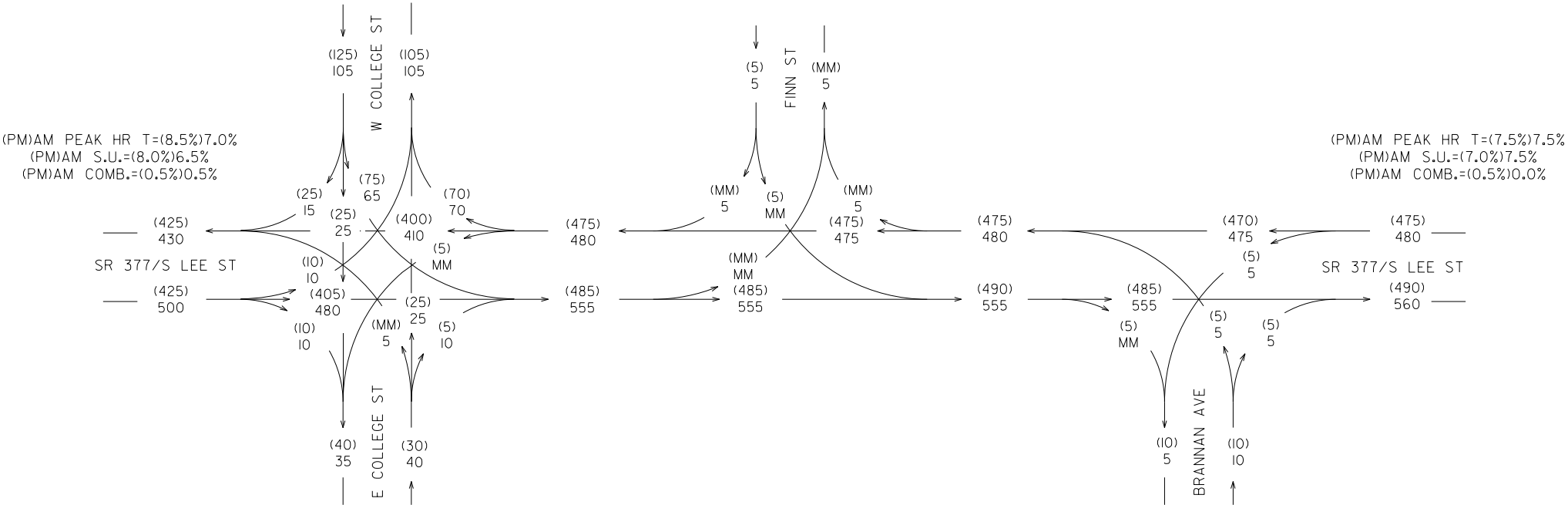
REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC DIAGRAM

DRAWING No.
10-06





AJP 2/2017

Attachment # 6

Traffic Report

To

Rhonda Niles, GDOT Office of
Planning

From

Mahesh Atluri, P.E., PTOE



Subject

Traffic Forecasting for

PI No. 0013752, Sumter County

Date

February 8, 2017

**Technical
Memorandum**

1. INTRODUCTION

This memorandum summarizes the methodology and factors used to forecast future traffic volumes for the SR 377/S Lee St project in Sumter County. The project starts at the intersection of E College St/W College St running north and ending just north of Brannan Ave. in the city of Americus in Sumter County. The total project length is approximately 0.1 miles on SR 377/S Lee St. The project consists of the replacing the bridge over the railroad just south of Finn St.

The Existing Year, Base Year and Design Year for this project are 2016, 2021 and 2041 respectively. The forecasting process will result in Annual Average Daily Traffic (AADT) volumes and Design Hourly Volumes (DHVs) for 2016, 2021, 2041 as well as for the “+2 years” 2023 and 2043.

1.1 Other Projects in the Area

The GDOT GeoPI database was reviewed to identify the projects adjacent to the PI 0013752, that could impact the existing or future traffic volumes or operations along SR 377/S Lee St. There are no current or future planned projects in the area that would affect traffic volumes within the project limits.

1.2 Field Notes

SR 377/S Lee St is classified as an urban minor arterial for the length of the project. The existing typical section consists of one lane in each direction. SR 377/S Lee St has one signalized intersection within the project limits at E College St/W College St. All other side roads are stop controlled. The corridor is primarily residential with the Calvary Episcopal Church just north of the bridge, east of SR 377. For additional information, a field trip report is included in Attachment A.

2. METHODOLOGY

The forecasting methodology for establishing No Build and Build traffic projections uses the following data sets:

- 2016 turning movement counts
- 2016 volume and classification counts
- 2014 GDOT Traffic Adjustment Factors
- Historical AADT (2000 to 2015)
- Population Growth projections from 2010 to 2040.
- Georgia Statewide Travel Demand Model (GSTDM) for 2010 and 2040 E+C Scenarios

Note: The local classification counts are used to adjust the non-classification counts when balancing the traffic counts along the project corridor by placing greater emphasis on the classification counts.

The traffic forecasting process consisted of the following steps:

- Collect weekday directional daily and hourly counts (volume and classification) and hourly turning movement counts
- Compare collected volumes to GDOT historical counts.
- Apply adjustment factors to traffic counts to adjust for daily and monthly variations
- Collect information related to programmed projects and population growth and review their potential impacts to future traffic growth.
- Review GDOT historical traffic counts to assess traffic growth trends.
- Review Georgia Statewide Travel Demand Model (GSTDM) outputs to estimate future growth rates.
- Apply growth factors to estimate AADT and DHV for 2021.
- Apply growth factors to convert 2021 AADT and DHV to 2023/2041/2043 AADT and DHV and maintain existing K & Directional Distribution (D) factors.

3. DATA COLLECTION

The following sections describe the data collection and review of growth trends.

3.1 *Traffic Counts*

Attachment B illustrates the locations and types of counts for the study area. Existing traffic data was collected in November of 2016. The daily counts were factored to represent Average Annual Daily Traffic (AADT). The factors were obtained from the GDOT 2014 factor sheet. The factors used for this project are listed below.

Seasonal Factors – November

- SR 377/S Lee St – Urban Minor Arterial Not Atlanta
 - 1.02
- Secondary Roads- Urban Local Collector
 - 1.02

Day of Week Factors (Wednesday, and Thursday, Nov 9-10, 2016)

- SR 377/S Lee St – Urban Minor Arterial Not Atlanta
 - 0.94, 0.92
- Secondary Roads – Urban Local Collector
 - 0.92, 0.92

Axle Factors

- SR 377/S Lee St – Urban Minor Arterial Not Atlanta
 - 0.97
- Secondary Roads- Urban Local Collector
 - 0.97

Table 1 shows the types of counts collected to develop existing 2016 volumes.

Table 1. Summary of Traffic Data Collected

Quantity	Description
2	6-Hr Turning Movement Count
5	48-Hr Bidirectional Automatic Machine Count
2	48-Hr Bidirectional Automatic Machine Count with Classification

3.2 K & D Factors

The existing K-factors and D-factors for the AM and PM Peak Hours were calculated based on the collected counts that were balanced and rounded. When balancing the traffic counts, greater weight was given to the classification count stations 01 and 07. Table 2 summarizes the Existing 2016 Counts with Applied Factors (Daily, Monthly and Axle), Existing 2016 Balanced Counts, Peak Hour Balanced Counts, K & D Factors. See count location map, Attachment B for Count Station details.

Table 2. Existing Volumes, AM & PM K Factors, Directional Distribution

Count Station	Existing (2016 Counts with Applied Factors)		Existing (2016 Balanced Counts)		Peak Hour 7:15 AM				Peak Hour 3:30 PM			
	EB/NB	WB/SB	EB/NB	WB/SB	EB/NB	WB/SB	K	D	EB/NB	WB/SB	K	D
01	3,600	3,750	3,675	3,675	440	380	11.16%	0.54	375	370	10.14%	0.50
02	775	725	725	725	90	90	12.41%	0.50	105	90	13.45%	0.54
03	325	350	350	350	30	35	9.29%	0.54	35	25	8.57%	0.58
04	3,975	4,050	4,000	4,000	485	420	11.31%	0.54	425	415	10.50%	0.51
05	50	50	50	50	5	5	10.00%	0.50	5	0	5.00%	1.00
06	100	75	100	100	5	10	7.50%	0.67	10	10	10.00%	0.50
07	3,975	4,125	4,050	4,050	490	420	11.23%	0.54	430	415	10.43%	0.51

Notes:

- Count stations shown in bold are on SR 377/S Lee St.
- Applied Factors include daily and monthly factors at all count locations. In addition, axle factors are applied at non-classification count locations.

3.3 *Truck Percentages*

The existing truck percentages for Daily and the AM and PM Peak Hours were calculated based on a review of the collected counts. **Table 3** summarizes the existing truck percentages within the project area. Based on the predicted growth within the project area, the proposed truck percentages are assumed to be same as Existing for future Base and Design years.

Table 3. Existing Truck Percentages

Truck Percentages for SR 377 from College St to Brannan Ave									
Roadway	Daily			AM Peak Hour			PM Peak Hour		
	24hr T %	S.U. %	COMB. %	T %	S.U. %	COMB. %	T %	S.U. %	COMB. %
S Lee St S/O College St	5.5%	5.0%	0.5%	7.0%	6.5%	0.5%	8.5%	8.0%	0.5%
S Lee St N/O Brennan Ave	6.0%	5.5%	0.5%	7.5%	7.5%	0.0%	7.5%	7.0%	0.5%

4. CORRIDOR GROWTH RATES

Growth rates from a number of sources were summarized in the section below, the sources include: historical traffic counts, population projections, and the Georgia Statewide Travel Demand Model (GSTDM). Based on these sources a recommended project growth rate is presented.

4.1 *GDOT Historical Traffic Data and Historical Traffic Growth Trends*

Historical traffic data (2000-2015) was collected from the GDOT Geocounts database. Data from four stations around the project area in Sumter County was collected and analyzed.

- 2 station on SR 377/S Lee St
- 1 station on E College St
- 1 station on W College St

Table 4 below shows the summary of the GDOT historical data around the project area. Detailed historical growth rate calculations are included in Attachment D.

Table 4. GDOT Historical Traffic Growth Rates

Historical Traffic Volume Summary				
	Stations	15 year	10 year	5 year
S Lee St/SR 377	2	-2.56%	-2.07%	-2.07%
Side Roads	2	-1.26%	-2.6%	NA

4.2 *Census Population Data*

The data from US Census Bureau was reviewed for Sumter County. The data indicates that the population growth rate for Sumter County was -0.1% between 2000 and 2010 and -1.3% between 2010 and 2016. The Governor's Office of Planning and Budget estimates that the population growth rate between 2015 and 2040 will be -0.8% for Sumter County.

4.3 *Travel Demand Model Review*

2010 and 2040 Georgia Statewide Travel Demand Models were reviewed. Traffic volumes from several links in the project area were collected and analyzed. Annual growth rates were calculated for the links. Based on the model, SR 377/S Lee St show a compounded annual linear growth rate of 0.3% from 2010 to 2040.

4.4 *Recommended Growth Rates*

Based on the review of GDOT historic data, Georgia Statewide Travel Demand Model, and region population forecasts, the recommended growth rates for Build and No Build are shown in Table 5 below.

Table 5. Proposed No-Build & Build 2016-2021 and 2021-2041 Annual Growth Rates

Roadway	No-Build		Build	
	2016-2021	2021-2041	2016-2021	2021-2041
SR 377/S Lee St	0.50%	0.50%	0.50%	0.50%
Side Roads	0.50%	0.50%	0.50%	0.50%

The traffic volumes for the “+2 year” will be attained by using the same Base Year to Design Year growth rate of 0.5% for No-Build and 0.5% for Build to extend the 2021/2041 volumes to 2023/2043.

2023, 2025, 2043 AND 2045 FORECASTS

The No Build and Build Traffic Projects apply the recommended growth rates to the Existing AADT, AM DHV, and PM to derive future forecasts, thereby keeping the K-factors and D-factors to be the same as existing.

ATTACHMENT A

Field Trip Report

P.I.# 0013752
Sumter County
SR 377 @ HOG #635346H



Field Trip Report

The project is along SR 377, starting at the intersection of E College St/W College St running north and ending just north of Brannan Ave. The purpose of the project is to replace the bridge over the railroad just south of Finn St. The total length of the project is approximately 0.1 miles. SR 377 is classified as an urban minor arterial outside of Atlanta. The existing typical section consists of one lane in each direction. The intersection of SR 377 and E College/W College St is the only signalized intersection in the project limits. Finn St and Brannan Ave intersections are stop controlled. The project is approximately 0.5 miles south of downtown Americus.

The land use along the project corridor is primarily residential made up of single family homes and an apartment building. There is a funeral home near the south end of the project and the Calvary Episcopal Church is on SR 377 just north of the bridge being replaced. All the side roads are local roads. There is no active construction along the project corridor.

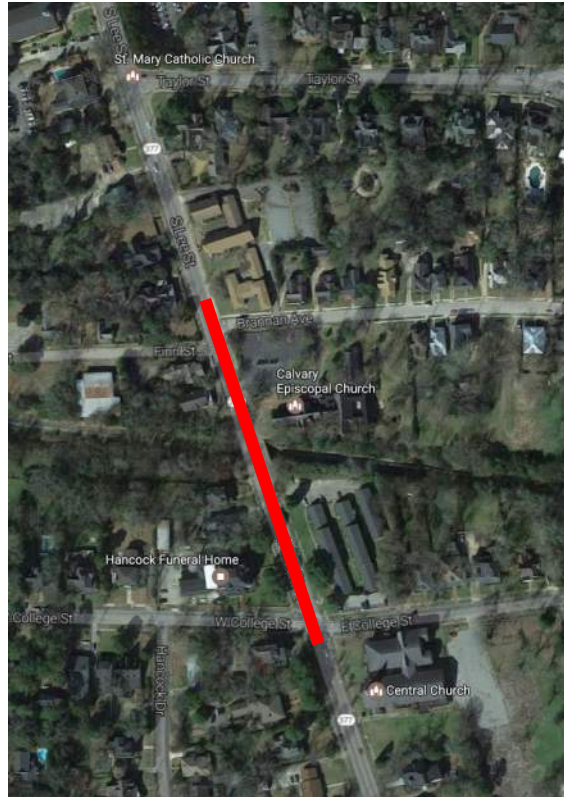
SR 377



P.I.# 0013752
Sumter County
SR 377 @ HOG #635346H

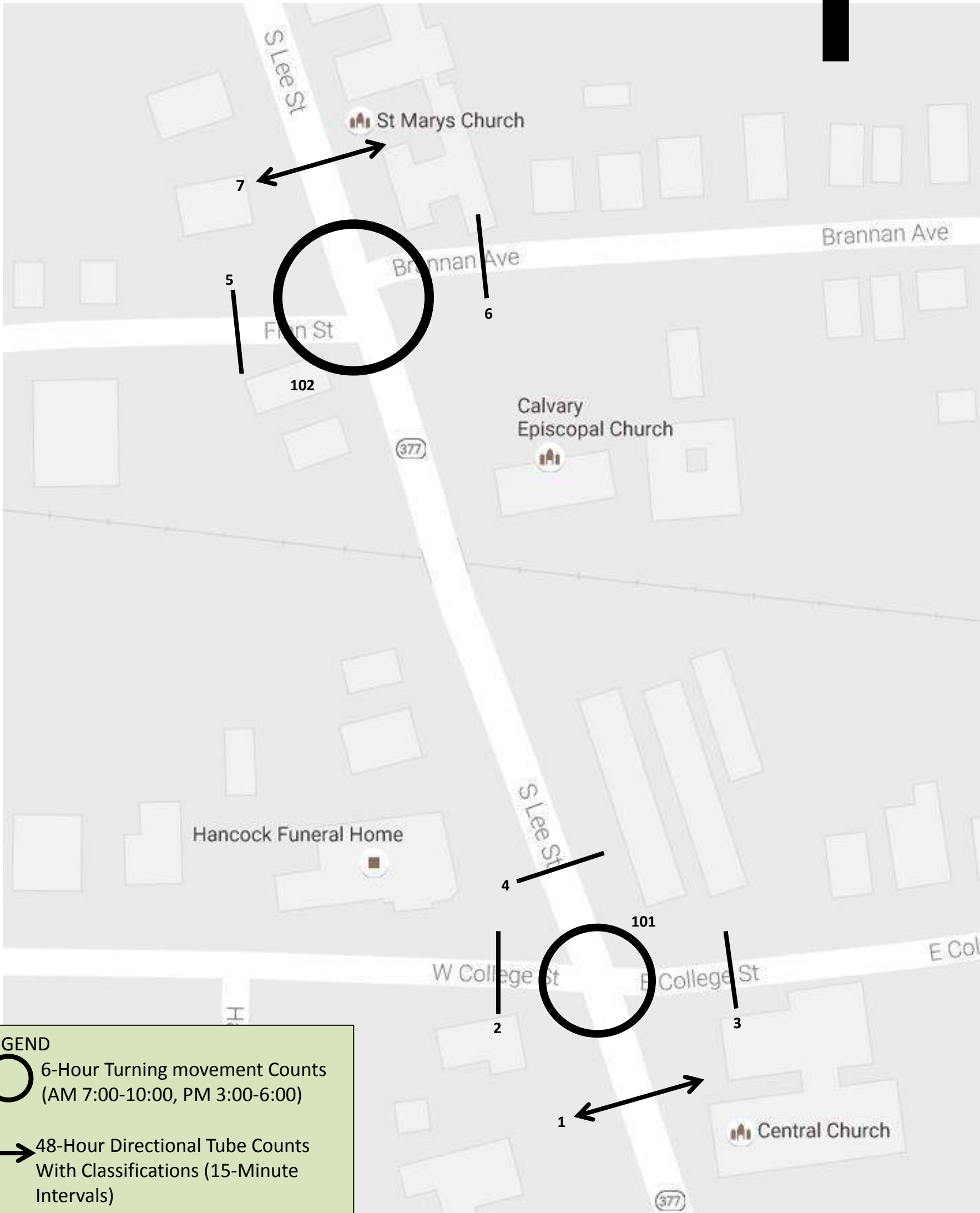


Aerial view of the project area



ATTACHMENT B

Count Location Map



LEGEND

6-Hour Turning movement Counts
(AM 7:00-10:00, PM 3:00-6:00)

48-Hour Directional Tube Counts
With Classifications (15-Minute
Intervals)

48-Hour Directional Tube Counts
(15-Minutes Intervals)

P.I. #0013752 SR 377 @ HOG #635346H in Americus
Count Location Map



P.I.# 0013752 in Sumter County Turning Movement Counts	
Int #	SR 377 @ HOG #635346H in Americus
101	SR 377/S Lee St @ W College St/E College St
102	SR 377/S Lee St @ Finn St/Brannan Ave

P.I.# 0013752 in Sumter County Tube Counts	
Tube	SR 377 @ HOG #635346H in Americus
1	SR 377/S Lee St, South of W College St/E College St
2	W College St, West of SR 377/S Lee St
3	E College St, East of SR 377/S Lee St
4	SR 377/S Lee St, South of Finn St
5	Finn St, West of SR 377/S Lee St
6	Brannan Ave, East of SR 377/S Lee St
7	SR 377/S Lee St, North of Brannan Ave

ATTACHMENT C

Raw Counts (Submitted Electronically)

ATTACHMENT D

Historic Growth Rate Calculations

Sumter County

Bridge Replacement on SR 377/S Lee St from E College St to Brannan Ave

Historic Counts

	S Lee St / SR 377		College St	
Station	2610185	2610187	2610285	2610289
County	Sumter	Sumter	Sumter	Sumter
Year	AADT	AADT	AADT	AADT
1990	6,177	10,524	1,671	952
1991	7,136	12,080	1,922	1,150
1992	7,236	10,843	2,104	1,085
1993	7,600	11,900	1,700	1,000
1994	8,100	11,300	1,800	1,100
1995	8,300	12,600	1,900	1,100
1996	7,500	10,800	1,700	1,100
1997	7,200	10,700	1,800	1,600
1998	9,100	12,500	1,700	1,200
1999	10,100			
2000			1,900	
2001		14,800		1,000
2002	8,833	13,119	1,872	925
2003	9,080	13,380	1,740	1,020
2004	9,110	11,780	1,280	870
2005	7,480	11,440		810
2006	8,200	11,640	1,600	1,210
2007	8,460		1,510	930
2008	6,760		1,630	
2009		10,160		
2010	7,340			1,140
2011	6,980			
2012		9,990	1,420	
2013	6,580			
2014		10,800		840
2015	6,530			
2016	7,350	8,100	1,450	700
15 year growth rate	-2.2%	-3.0%	-1.3%	-1.2%
Valid counts	75%	63%	50%	63%
10 year growth rate	-1.7%	-2.4%	-1.1%	-4.1%
Valid counts	73%	45%	45%	45%
5 year growth rate	0.6%	-4.7%	0.5%	-7.8%
Valid counts	67%	50%	33%	33%

Historical Traffic Volume Summary				
	Stations	15 year	10 year	5 year
S Lee St / SR 377	2	-2.56%	-2.07%	-2.07%
Side Roads	2	-1.26%	-2.6%	NA

ATTACHMENT E

Truck Percentage Tables

P.I.# 0013752

Sumter County

SR 377 Bridge Replacement/Widening of SR 377 from E College St to Brannan Ave



Truck Percent Calculation

AM Peak 7:15 - 8:15	Count Location 01 S Lee St South of College St				Single Unit				Combination						Total
	Direction	1 Bikes	2 Cars & Trailers	3 2 Axle Long	4 Buses	5 2 Axle 6 Tire	6 3 Axle Single	7 4 Axle Single	8 <5Axle Double	9 5 Axle Double	10 >6 Axle Double	11 <6 Axle Multi	12 6 Axle Multi	13 >6 Axle Multi	
Day 1	NB	0	331	79	14	14	0	0	0	0	0	0	0	0	
	SB	0	279	64	14	16	0	0	0	2	0	0	0	0	
Day 2	Total Volume	753			58				2						
	NB	0	333	68	11	15	0	0	0	0	0	1	0	0	
	SB	0	275	61	13	10	0	0	1	1	0	0	0	0	
	Total Volume	737			49				3						789
	Total Truck %				6.5%				0.5%						7.0%

PM Peak 3:30 - 4:30	Count Location 01 S Lee St South of College St				Single Unit				Combination						Total
	Direction	1 Bikes	2 Cars & Trailers	3 2 Axle Long	4 Buses	5 2 Axle 6 Tire	6 3 Axle Single	7 4 Axle Single	8 <5Axle Double	9 5 Axle Double	10 >6 Axle Double	11 <6 Axle Multi	12 6 Axle Multi	13 >6 Axle Multi	
Day 1	NB	2	279	75	8	12	0	0	1	0	0	0	0	0	
	SB	1	253	79	16	19	0	0	0	3	0	0	0	0	
Day 2	Total Volume	689			55				4						
	NB	0	257	78	8	14	0	0	0	0	0	0	1	0	
	SB	0	222	57	16	18	0	0	0	1	0	0	0	0	
	Total Volume	614			56				2						672
	Total Truck %				8.0%				0.5%						8.5%

24 Hr T	Count Location 01 S Lee St South of College St				Single Unit				Combination						Total
	Direction	1 Bikes	2 Cars & Trailers	3 2 Axle Long	4 Buses	5 2 Axle 6 Tire	6 3 Axle Single	7 4 Axle Single	8 <5Axle Double	9 5 Axle Double	10 >6 Axle Double	11 <6 Axle Multi	12 6 Axle Multi	13 >6 Axle Multi	
Day 1	NB	6	2877	718	30	116	1	0	5	8	0	0	0	0	
	SB	4	2884	759	46	184	2	0	10	15	1	1	0	0	
Day 2	Total Volume	7248			379				40						
	NB	4	2901	726	27	113	4	0	11	2	0	1	1	0	
	SB	3	2892	749	40	209	5	0	15	5	0	0	0	0	
	Total Volume	7275			398				35						7708
	Total Truck %				5.0%				0.5%						5.5%

P.I.# 0013752

Sumter County

SR 377 Bridge Replacement/Widening of SR 377 from E College St to Brannan Ave



AM Peak 7:15 - 8:15	Count Location 07 S Lee St North of Brennan Ave				Single Unit				Combination						Total
	Direction	1 Bikes	2 Cars & Trailers	3 2 Axle Long	4 Buses	5 2 Axle 6 Tire	6 3 Axle Single	7 4 Axle Single	8 <5Axle Double	9 5 Axle Double	10 >6 Axle Double	11 <6 Axle Multi	12 6 Axle Multi	13 >6 Axle Multi	
Day 1	NB	0	369	89	19	15	0	0	0	0	0	0	0	0	
	SB	0	323	67	14	16	0	0	0	2	0	0	0	0	
	Total Volume	848				64				2					
Day 2	NB	0	369	78	16	27	0	0	0	0	0	0	0	0	
	SB	0	333	75	14	14	0	0	0	1	0	0	0	0	
	Total Volume	855				71				1					
	Total Truck %				7.5%				0.0%						7.5%

PM Peak 3:30 - 4:30	Count Location 07 S Lee St North of Brennan Ave				Single Unit				Combination						Total
	Direction	1 Bikes	2 Cars & Trailers	3 2 Axle Long	4 Buses	5 2 Axle 6 Tire	6 3 Axle Single	7 4 Axle Single	8 <5Axle Double	9 5 Axle Double	10 >6 Axle Double	11 <6 Axle Multi	12 6 Axle Multi	13 >6 Axle Multi	
Day 1	NB	1	322	83	9	14	0	0	1	2	0	0	0	0	
	SB	0	303	74	17	19	0	0	0	3	0	0	0	0	
	Total Volume	783				59				6					
Day 2	NB	0	301	83	9	14	1	0	0	0	0	0	0	0	
	SB	0	290	73	16	15	0	0	0	1	0	0	0	0	
	Total Volume	747				55				1					
	Total Truck %				7.0%				0.5%						7.5%

24 Hr T	Count Location 07 S Lee St North of Brennan Ave				Single Unit				Combination						Total
	Direction	1 Bikes	2 Cars & Trailers	3 2 Axle Long	4 Buses	5 2 Axle 6 Tire	6 3 Axle Single	7 4 Axle Single	8 <5Axle Double	9 5 Axle Double	10 >6 Axle Double	11 <6 Axle Multi	12 6 Axle Multi	13 >6 Axle Multi	
Day 1	NB	7	3166	777	39	134	1	0	6	10	0	0	0	0	
	SB	4	3238	780	50	201	2	0	8	18	1	0	0	0	
	Total Volume	7972				427				43					
Day 2	NB	4	3166	798	33	165	5	0	11	5	0	0	0	0	
	SB	5	3248	824	42	220	5	0	8	12	0	0	0	0	
	Total Volume	8045				470				36					
	Total Truck %				5.5%				0.5%						6.0%

ATTACHMENT F

Project Request Form

Office of Planning - Traffic Analysis Section

Traffic Projections/Review Request Form

Important Reminder:
Traffic counts cannot be obtained during school closings and holidays.
Please plan accordingly!

Date of Request

11/02/2016

What are you requesting?

- ☒ Design traffic data to be supplied by this office
☐ Review and approval of design traffic data supplied by a consultant
☐ Review and approval of consultant design traffic project methodology

REQUESTOR INFORMATION

Requestor Name (All requests must come from GDOT personnel only)

Derrick Cameron

Requestor Office

Office of Program Delivery

Requestor Phone Number

404-444-1776

Requestor Office Head Name

Albert Shelby

PROJECT INFORMATION

P.I. Number

0013752

County

Sumter

Project Number

Bridge ID Number

261-0040-0

Project Description

SR 377 @ HOG #635346H IN AMERICUS

Project Type

Bridge Replacement/Widening

Project Phase

Concept

Approved ROW Authorization Fiscal Year

2018

Approved CSTR Authorization Fiscal Year

2019

Construction Start Year

2019

Open/Base Year (year project opens to traffic)

2021

Design Year (base + 20 years)

2041

Construction Time or Duration

18 months

Is an Air/Noise Study required at this time? ☐

Why are you making this request?

- ☒ Preliminary Engineering /Level of Service (for all project types) - {Includes: Open/Base Year ADT, Design Year ADT, Existing DHV, Design Year DHV, Truck Percentage, 24-Hour Truck Percentage, Directional Split}
- ☐ Air/Noise Study - {Includes: Existing ADT & DHV, Open/Base Year ADT, Design Year DHV, Design Year No Build ADT & DHV, Truck Percentage, 24-Hour Truck Percentage}
- ☐ Traffic Engineering (TE) Study (including signal warrants) - {Includes: Existing DHV, Design Year DHV, Open/Base Year DHV, 8+ Hours of Turning Movements}
- ☐ Special Request (type specific data requirement in Comment box below)

Comments

Please collect data from the intersections of SR 33 at Brannan Avenue, Finn Street, Randolph Street, and East College Street.

Please attach the following to this request:

1. Project Layout

Attach project layout with submission of this form or insert hyperlink here:

Google Earth Location: 32°03'59.82" N 84°13'49.79" W

Explain any new or revised alignment here:

Did you confirm with the designer that there have been no changes to the alignment or access for this project (ex. was a median opening added or relocated; is the project on new location, etc.)?

- ☐ Yes
☐ No - Please confirm before submitting this request

2. Beginning and ending node locations/milepost markers for the project

Attach with submission of this form or insert hyperlink here:

Sr 337 from Brannan Avenue to East College Street

3. Any known development (i.e. new residential or commercial development, closings, etc.)

Attach with submission of this form or insert hyperlink here:

Did you confirm with the District Traffic Engineer or Area Engineer that there is no known development in the project area?

- ☐ Yes
☐ No - Please confirm before submitting this request

4. Traffic studies from consultants, local governments, or private developers

Attach with submission of this form or insert hyperlink here:

5. Any study limit extensions - Please list any roads you would like included in the traffic that is beyond the stated project description limits (i.e. logical termini)

Attach a map indicating the location(s) of any additional roads to be included with submission of this form or insert hyperlink here:

6. Do you want to include commercial driveways, minimal movement roads (roads with less than 50 vpd) or dirt roads?

Please describe the location(s) and attach a map indicating the locations(s) with the submission of this form or insert hyperlink here:

Attachment # 7

Bridge Reports

Bridge Inventory Data Listing Georgia Department of Transportation

Processed Date:5/24/2018

Parameters: Bridge Serial Number

Bridge Serial Number: 261-0040-0

County: Sumter

SUFF. RATING: 52.5

Location & Geography

Structure ID: 261-0040-0
 200 Bridge Information: 06
 *6 Feature Intersected: NS RAILROAD
 *7A Route Number Carried: SR00377
 *7B Facility Carried: S. LEE STREET
 9 Location: IN AMERICUS
 2 GDOT District: 4841300000 - D3 District Three Thomaston
 *91 Inspection Frequency: 24 Date: 01/11/2017
 92A Fracture Critical Insp. Freq: 0 Date: 02/01/1901
 92B Underwater Insp Freq: 0 Date: 02/01/1901
 92C Other Spc. Insp Freq: 0 Date: 02/01/1901
 * 4 Place Code: 02116
 *5A Inventory Route(O/U): 1
 5B Route Type: 3 - State
 5C Service Designation: 1- Mainline
 5D Route Number: 00377
 5E Directional Suffix: 0. Not applicable
 *16 Latitude: 32 - 3.9936
 *17 Longitude: 84 - 13.8270
 98A Border Bridge: 0 98B: GA% 00
 99 ID Number: 0000000000000000
 *100 STRAHNET: 0- The Feature is not a STRAHNET route.
 12 Base Highway Network: Yes
 13A LRS Inventory Route: 2611037700
 13B Sub Inventory Route: 0
 101 Parallel Structure: N. No parallel structure exists
 *102 Direction of Traffic: 2- Two Way
 *264 Road Inventory Mile Post: 10.73
 *208 Inspection Area: Area 08
 *104 Highway System: 0- Inventory Route is not on the NHS
 *26 Functional Classification: 16- Urban - Minor Arterial
 *204A Federal Route Type: M - Urban.

 *204B Federal Route Number: 00216
 105 Federal Lands Highway: 0. Not applicable
 *110 Truck Route: 0- The Feature is not part of the National Network for Trucks
 217 Benchmark Elevation: 0000.00

 * Location ID No: 261-00377D-010.74N

218 Datum:

0- Not Applicable
 *19 Bypass Length: 1
 *20 Toll: 3- On a Free Road or Non-Highway
 *21 Maintenance Responsibility: 01-State Highway Agency.
 *22 Owner: 01-State Highway Agency.
 *31 Design Load: 0- Unknown
 37 Historical Significance: 2- Eligible for the National Register of Historic Places
 205 Congressional District: 002
 27 Year Constructed: 1911
 106 Year Reconsructed: 0
 33 Bridge Median: 0-None
 34 Skew: 30
 35 Structure Flared: No
 38 Navigation Control: N- Bridge is not over water
 213 Special Steel Design: 0- Not applicable or other
 267A Type Paint Super Structure: 0- Not Applicable. Year : 0000
 267B Type Paint Sub Structure: 0- Not Applicable Year : 0000
 *42A Type of Service On: 5-Highway-Pedestrian
 *42B Type of Service Under: 2-Railroad
 214A Movable Bridge: 0
 214B Operator on Duty: 0
 203 Type Bridge: Z - Unknown. O. Concrete A. No Beams O. Concrete
 259 Pile Encasement: 3
 *43A Structure Type Main material: 2-Concrete (Continuous)
 *43B Structure Type Main Type: 1-Slab
 45 Number of Main Spans: 3
 44 Structure Type Approach: A:0- Other B: 0- Other
 46 Number of Approach Spans: 0
 226 Bridge Curve: A: Vertical: YesB: Horizontal: No
 111 Pier Protection: N - Navigation Control item coded 0, or Feature not a waterway
 107 Deck Structure Type: 1 - C-I-P Portland Cement Concrete - Epoxy Coated Rebars
 108A Wearing Surface Type: 6. Bituminous
 108B Membrane Type: 0. None

 108C Deck Protection: 8. Unknown
 265 Underwater Inspection Area: 0

Signs & Attachments

225 Expansion Joint Type: 00- No expansion joint.
 242 Deck Drains: 0- None.
 243A Parapet Location: 0- None present.
 243B Parapet Height: 0.00
 243C Parapet Width: 0.00
 238A Curb Height: 0.3
 238B Curb Material: 1- Concrete.
 239A Handrail Left: 1- Concrete.
 239B Handrail Right: 1- Concrete.
 *240 Median Barrier Rail: 0- None.
 241A Bridge Median Height: 0
 241B Bridge Median Width: 0
 *230A Guardrail Location Direction Rear: 0- None.
 *230B Guardrail Location Direction Fwrd: 0- None.
 *230C Guardrail Location Opposing Rear: 0- None.
 *230D Guardrail Location Opposing Fwrd: 0- None.
 244 Approach Slab: 0- None.
 224 Retaining Wall: 1- Cast-in-Place Concrete.
 233 Posted Speed Limit: 35
 236 Warning Sign: Yes
 234 Delineator: No
 235 Hazard Boards: No
 237A Gas: 34- Side Left and Right.
 237B Water: 00- Not Applicable
 237C Electric: 00- Not Applicable
 237D Telephone: 00- Not Applicable
 237E Sewer: 21- Bottom Left.
 247A Lighting: Street: Yes
 247B Navigation: No
 247C Aerial: No
 *248 County Continuity No.: 00
 36A Bridge Railings: 3- Inspected feature exists but does not meet current or construction date standards.
 36B Transition: 0- Does not meet standards
 36C Approach Guardrail: 0- Does not meet standards
 36D Approach Guardrail Ends: 0- Does not meet standards

Bridge Inventory Data Listing Georgia Department of Transportation

Processed Date:5/24/2018

Bridge Serial Number: 261-0040-0

County: Sumter

SUFF. RATING: 52.5

Programming Data

201 Project Number: UNKNOWN
 202 Plans Available: 0- No Plans Available.
 249 Proposed Project Number: 000000000000000000000000
 250A Reconstruction Approval Status: No
 250B Route Approval Status: No
 250C Approval Status Definition: 1
 250D Approval Status Federal: 1
 251Project Identification Number: 0013752
 252 Contract Date: 02/01/1901
 260 Seismic Number: 00000
 75A Type Work Proposed: 31- Replacement due to load capacity or roadway geometry
 75B Work Done by: 1- Work to be done by contract
 94 Bridge Improvement Cost:(X\$1,000) \$172
 95 Roadway Improvement Cost: (X\$1,000) \$17
 96 Total Improvement Cost: (X\$1,000) \$258
 76 Improvement Length: 255.0'
 97 Year Improvement Cost Based On: 2013
 114 Future AADT: 14805
 115 Future AADT Year: 2031

Hydraulic Data

113 Scour Critical: N. Bridge not over waterway.
 216A Water Depth: 00.0
 216B Bridge Height: 00.0
 222 Slope Protection: 0
 221A Spur Dike Rear:
 221B Spur Dike Fwd:
 219 Fender System: 0- None.
 220 Dolphin:
 223A Culvert Cover: 000
 223B Culvert Type: 0- Not Applicable
 223C Number of Barrels: 0
 223D Barrel Width: 0.0
 223E Barrel Height: 0.0
 223F Culvert Length: 0.0
 223G Culvert Apron: 0
 39 Navigation Vertical Clearance: 0'
 40 Navigation Horizontal Clearance: 0
 116 Navigation Vertical Clear Closed: 0

Measurements:

*29 AADT: 9870
 *30 AADT Year: 2011
 109 % Truck Traffic: 1
 * 28A Lanes On: 2
 *28B Lanes Under: 0
 210A Tracks On: 00
 210B Tracks Under: 1
 * 48 Maximum Span Length: 18
 * 49 Structure Length: 44
 51 Bridge Roadway Width: 35.0'
 52 Deck Width: 59.6'
 * 47 Total Horizontal Clearance: 35.0'
 50A Curb / Sidewalk Width Left: 10.8
 50B Curb / Sidewalk Width Right: 10.8
 32 Approach Rdwy. Width: 37.0'
***229 Approach Roadway**
Rear Shoulder Left: Width: 1 Right Width:1.0 Type: 1 - Concrete.
Fwd Shoulder: Left Width: 1 Right Width:1.0 Type: 1 - Concrete.
Rear Pavement: Width: 35.0 Type:2- Asphalt.
Forward Pavement: Width: 35.0 Type:2- Asphalt.
Intersection Rear: 1 Forward:1
 53 Minimum Vertical Clearance Over Rd: 99' 99"
 54A Under Reference Feature: R- Railroad beneath structure.
 54B Minimum Clearance Under: 17' 4"
***228 Minimum Vertical Clearance**
228A Actual Odometer Direction: 99'99"
228B Actual Opposing Direction: 99'99"
228C Posted Odometer Direction: 00'00"
228D Posted Opposing Direction: 00'00"
 55A Lateral Underclearance Reference: R- Railroad beneath structure.
 55B Lateral Underclearance on Right: 6.8
 56 Lateral Underclearance on Left: 0.0
 10A Direction of Travel for Max Min: 0
 10B Max Min Vertical Clearance: 99'99"
 245A Deck Thickness Main: 12.0
 245B Deck Thickness Approach: 0.0
 246 Overlay Thickness: 4

Ratings and Posting

65 Inventory Rating Method: 2-Allowable Stress (AS)
 63 Operating Rating Method: 2-Allowable Stress (AS)
 66A Inventory Type: 2 - HS loading.
 66B Inventory Rating: 24
 64A Operating Type: 2 - HS loading.
 64B Operating Rating: 32
231Calculated Loads Posting Required
231A H-Modified: 20 No
231B Type3/Tandem: 28 No
231C Timber: 36 No
231D HS-Modified: 25 No
231E Type 3S2: 40 No
231F Piggyback: 40 No
 261 H Inventory Rating: 15
 262 H Operating Rating: 23
 67 Structural Evaluation: 4
 58 Deck Condition: 4 - Poor Condition
 59 Superstructure Condition: 4 - Poor Condition
 * 227 Collision Damage:
 60A Substructure Condition: 5 - Fair Condition
 60B Scour Condition: N - Not Applicable
 60C Underwater Condition: N - Not Applicable
 71 Waterway Adequacy: Not Applicable.
 61 Channel Protection Cond.: Not Applicable.
 68 Deck Geometry: 4
 69 UnderClr. Horz/Vert: N
 72 Approach Alignment: 7-Between 8 and 6
 62 Culvert: N - Not Applicable
 70 Bridge Posting Required: 5. Equal to or above legal loads
 41 Struct Open, Posted, CL: A. Open, no restriction
 * 103 Temporary Structure: No
232 Posted Loads
232A H-Modified: 00
232B Type3/Tandem: 00
232C Timber: 00
232D HS-Modified: 00
232E Type 3s2: 00
232F Piggyback: 00
 253 Notification Date: 02/01/1901
 258 Federal Notify Date: 02/01/1901

Attachment # 8

MS4 Concept Report Summary

County: Sumter

MS4 Concept Report Summary

Attach the following checklist information to the Concept Report Template:

-
- Is there a Project Level Exclusion that applies to this project: ☐ No ☒ Yes
- If yes, please indicate which of the following exclusions apply:
- ☐ Roadways that are not owned or operated (maintained) by GDOT may not require post-construction BMPs. Coordinate with the appropriate local government or entity to determine stormwater management requirements.
 - ☒ The project location is not within a designated MS4 area.
 - ☐ Maintenance and safety improvement projects whereby the sites are not connected and disturbs less than one acre at each individual site. This includes projects such as repaving, shoulder building, fiber optic line installation, sign addition, and sound barrier installation.
 - ☐ Projects that have their environmental documents approved or right-of-way plans submitted for approval on or before June 30th, 2012.
 - ☐ Road projects that disturb less than 1 acre or for site development projects that add less than 5,000 ft² of impervious area.

Attachment # 9

Kick-off Meeting

Minutes

County: Sumter

Purpose	PI 0013752 Update Meeting #1		
Project	SR377 @ HOG #635346H in Americus, Sumter County	Project No.	EGXK3524
Prepared by	Derrick Vincent		
Location	GDOT Room 409	Date/Time	February 9, 2017 2:00 PM
Participants	See sign-in sheet		
File	J:\EGXK3524\500COMM\550MIN\ Kick off Meeting		

Meeting Minutes

Introductions were made by all present.

These meeting minutes follow the agenda created and presented by Derrick Vincent. See attached.

Task Order Review: Derrick gave a brief overview

- Entry Letter – Derrick Cameron provided signed entry letter.
- History – by Derrick Cameron
 - Several meetings have been held with local citizens.
 - Project proposes to either raise the bridge, lower the railroad, or both to allow for double stacked railroad car clearance.
 - There is local opposition to the project.
 - Locals would like for the road to remain open during construction as the road is heavily traveled.
 - Locals feel that GDOT is siding with railroad company versus the community.
 - Historic church wants vibration monitoring to be performed during construction.
 - CAC meetings will require a new task order.
 - There is no other way to re-route the railroad tracks.
 - There has been an open records request made by Georgia Trust.
- Environmental – led by Jonathan Cox
 - The bridge is eligible.
 - The project is surrounded by a historic district.
 - The church is architecturally unique.
 - There's not much in the area from an ecology standpoint.
 - For local citizens, impacting the church and closing the road during construction are the main concerns.
- Bridge – led by Lionel Alexander
 - Possible ways to accelerate bridge construction needs to be assessed. Pre-cast structures will be considered.

County: Sumter

- The church is not opposed to raising the bridge a couple of inches.
 - No additional railroad tracks are proposed under this project.
 - Gas lamps that are on the corners of the bridge will be kept.
 - The parapet cannot be saved. Decorative railing will be proposed for the bridge.
 - Span lengths will be critical.
 - Will the new lease dictate clearance criteria?
- Public Involvement – led by Leah Vaughan
 - Planned for 10 meetings.
 - The Church is now on the 2017 “Places in Peril” list.
 - Need a list of stakeholders and draft of the public involvement plan.
- Miscellaneous
 - Survey & SUE has been performed and given to Jacobs.
 - Chandria Brown stated that we all need to be mindful of the sensitivity of this project. Derrick Cameron and Chandria Brown are the points of contact.

Schedule

In development.

Action Items

- Team to draft a public involvement plan to review with the locals before implementation.
- Leah to provide a draft scope for CAC meetings.
- Derrick Cameron to provide copy of responses???

Attachment # 10

Stakeholder Comment Summary

County: Sumter

GDOT NEPA Planner: Jordan Allen**Date Submitted:** 4/11/2018**Consultant Preparer (if applicable):** Leah Vaughan, Sycamore Consulting, Inc.**GDOT Project Manager:** Derrick Cameron

Once the comment period has ended, the GDOT NEPA Analyst should route this as a pdf to the GDOT Project Manager (and others as necessary) along with a pdf of the comments and a Word document of your draft response letter. OES and OPD must work together to complete the response letter. Once the draft response letter is complete, email it to your team leader and the OES Office Head for final review. Aim to respond to all comments within **45 days** of the open house.

Basic Meeting and Response Letter Info	
Meeting Date: 4/10/2018	Number of Attendees: 24
End of Comment Period: 6/2/2017	

Forms at the Meeting	Forms or Letters Mailed to OES	Court Reporter Statements	Comments from OES's Website
9	0		

No. Opposed	No. In Support	No. Uncommitted	Conditional
1	7		1

If additional info is relevant, such as No. Preferred Alternative 1, etc., just add the needed rows or columns.

Major Concerns:

Those who commented expressed general support for maintaining the current elevation and aesthetic appeal of the bridge and limiting impacts to the historic nature of the area.

Concerns were raised about the local detour route and the potential impact to neighborhood streets not equipped to handle larger volumes of traffic.

Several people noted that the failure to raise the elevation of the bridge would negatively impact future economic growth and suggested a draw bridge as an alternative.

Public Officials:

Barry Blount, Mayor of Americus

Randy Howard, Chairman Sumter County Commission

Media:**Disposition of Comments:**

*Suggested strategy: (1) Sort your comments alphabetically by the commenter's last name. Give each commenter a number. Be aware that some commenters provide their comments in multiple ways (i.e. providing a comment form and a court reporter interview). Should this occur, the commenter should still only have one comment number and these different sources for comments should be grouped together. (2) If the commenter touches on multiple subjects, split the commenter's remarks into multiple parts designated with letters and combined with the number (e.g. 1a, 1b, 1c...). (3) Summarize these comments in the Nature of Comment Column. List in the Comment # Column all comments (from multiple commenters) that fit the Nature of Comment description. **Please Note:** If a comment is specific to a commenter's property or individual situation, it may not be appropriate for a combined response letter. In these instances, prepare a response letter that addresses the commenter's individual concerns but also includes the comments/responses provided in the combined response letter. If ROW specific, the ROW office should respond.*

County: Sumter

Nature of Comment <i>(Use complete sentences with enough context and information that the statements below can be listed in the response letter.)</i>	Comment #
General support for maintaining current elevation	2,3, 4, 5, 6,7
Opposition	1
Local Detour	3
Economic Development	1, 9
Historic District	7, 8

Attachment # 11

Public Involvement

Open House

Comment Summary

County: Sumter

GDOT NEPA Planner: Jordan Allen**Date Submitted:** 6/27/2018**Consultant Preparer (if applicable):** Leah Vaughan, Sycamore Consulting, Inc.**GDOT Project Manager:** Derrick Cameron

Once the comment period has ended, the GDOT NEPA Analyst should route this as a pdf to the GDOT Project Manager (and others as necessary) along with a pdf of the comments and a Word document of your draft response letter. OES and OPD must work together to complete the response letter. Once the draft response letter is complete, email it to your team leader and the OES Office Head for final review. Aim to respond to all comments within **45 days** of the open house.

Basic Meeting and Response Letter Info	
Meeting Date: 5/10/2018	Number of Attendees: 58
End of Comment Period: 6/2/2017	

Forms at the Meeting	Forms or Letters Mailed to OES	Court Reporter Statements	Comments from OES's Website
17	0	1	3

No. Opposed	No. In Support	No. Uncommitted	Conditional
	12	1	7

If additional info is relevant, such as No. Preferred Alternative 1, etc., just add the needed rows or columns.

Major Concerns:

Those who commented expressed general support for maintaining the current elevation and aesthetic appeal of the bridge and limiting impacts to the historic nature of the area.

Concerns were raised about the local detour route and the potential impact to neighborhood streets not equipped to handle larger volumes of traffic.

Several people noted that the failure to raise the elevation of the bridge would negatively impact future economic growth and suggested a draw bridge as an alternative.

Public Officials:

Bill McGowan, State Representative

Randy Howard, Chairman Sumter County Commission

Judge Rucker Smith, GA Superior Court

Kelvin Pless, City of Americus, Councilmember

Charles Christmas, City of Americus, Councilmember

Meda Krenson, Sumter County BOE/Americus Preservation Commission

George Hooks, State Senator, Retired

Media:

WISK 98.7

Disposition of Comments:

Suggested strategy: (1) Sort your comments alphabetically by the commenter's last name. Give each commenter a number. Be aware that some commenters provide their comments in multiple ways (i.e. providing a comment form and a court reporter interview). Should this occur, the commenter should still only have one comment number and these different sources for comments should be grouped together. (2) If the commenter touches on multiple subjects, split the commenter's remarks into multiple parts

County: Sumter

designated with letters and combined with the number (e.g. 1a, 1b, 1c...). **(3)** Summarize these comments in the Nature of Comment Column. List in the Comment # Column all comments (from multiple commenters) that fit the Nature of Comment description. **Please Note:** If a comment is specific to a commenter's property or individual situation, it may not be appropriate for a combined response letter. In these instances, prepare a response letter that addresses the commenter's individual concerns but also includes the comments/responses provided in the combined response letter. If ROW specific, the ROW office should respond.

Nature of Comment <i>(Use complete sentences with enough context and information that the statements below can be listed in the response letter.)</i>	Comment #
General support for maintaining current elevation	1,2, 5,7, 8,11,12,13, 15, 17,18,20, 21
Local Detour	2,4,5,6,9,12
Economic Development/Draw bridge	3, 10, 14, 20
Lack of Public Involvement	19

Attachment # 12

Concept Meeting Minutes

Meeting Minutes



Ten 10th Street, NW, Suite 1400
Atlanta, Georgia 30309
United States

Subject	Initial Concept Team Meeting		
Project	Americus Bridge Replacement		
Project No.	PI 0013752		
Prepared by	Ariel Robinson	Phone No.	404-555-3054
Location	GDOT District 3 (Thomaston)	Date/Time	July 26, 2018 10:00 AM
Participants	See sign in sheet		
File	0013752 Minutes 2018 07 26- Americus Bridge Replacement.docx		

Notes

1 Welcome and Introductions

Derrick Cameron (GDOT/AECOM) began the meeting by welcoming attendees. Attendees introduced themselves and their employer.

2 Concept Presentation

Bryan Ricks (Jacobs) gave a presentation on the Americus Bridge Replacement project. He began by introducing the project location, project justification statement, design criteria, existing conditions, and traffic counts.

The main goals of this project is to replace the existing bridge at the same roadway elevation, correct the K-values along the profile of the bridge, and match the existing bridge aesthetics.

Project design criteria:

- Proposed speed limit: 35 mph
- Design Vehicle: Unknown
- One lane each direction

Bryan Ricks then presented details about design variances, lighting, detours, utility and property, and context sensitive solutions.

- There is a "Lateral Offset to Obstruction" design variance required for this project.
- Lighting will be required for this project due to the existing gas lamps being removed, refurbished, and reinstalled.
- There are two proposed detours for this project. One (state route detour) is 18.4 miles long and will take about 17 minutes. Two (local road detour) is .51 miles long and will take about two minutes.

Meeting Minutes



Initial Concept Team Meeting
July 26, 2018 10:00 AM

Notes

- Georgia power, AT&T, and Americus gas, water, and sewer are in the vicinity of the bridge. Bobby Watson (GDOT Utilities) recommend SUE level D.
- This project lies within a historic district. Only two properties along the project limits are not historic. The project design will take into account and minimize impacts where possible to not disturb these properties.
- To retain the same aesthetics as the surrounding historic district, stone or brick veneers can be utilized along the bridge and retaining walls.

Jonathan Cox (Jacobs) presented the Environmental & Permits. The project is in resource identification phase. This project requires a Categorical Exclusion from NEPA and a NPDES permit is anticipated.

Environmental Resources

- Environmental consideration is based on the completion of resource identification, delineation, and agency occurrence.
- An NPDES permit is anticipated.
- An PAR is not required.

Ecology

- An Ecology Survey Report has been completed and no resources were identified.

History

- The History Survey Report has been accepted by GDOT-OES and two resources were identified: Americus Historic District and Lee Street Bridge
- Other than bridge removal, impacts to the historic district are anticipated to be minimal.

Archaeology

- The Archaeology Survey has been completed and no resources were found.

Bryan Ricks presented construction, bridge alternates, coordination, activities, responsibilities, and costs, alternative discussion and list of attachments/ supporting data.

- Federal Aviation Administration coordination is anticipated
- There has been a kick-off meeting, interview with the mayor, stake holder meeting, and Public Involvement Open House (PIOH)

3 General Comments

- Heart of Georgia Railroad offered 3 alternatives for accommodating double stack intermodal transportation which were: lower the rail tracks, bypass around Americus, or design a lift span bridge.

Meeting Minutes



Initial Concept Team Meeting
July 26, 2018 10:00 AM

Notes

- Marcella Cole (Utilities Railroad Coordination) will email comments about railroad involvement. She will provide inventory number of crossing, railroad mile post, and train information.
- Bobby Watson (GDOT Utilities) will send utility concept report and estimate to Derrick Cameron.
- Jacobs will complete the concept report per comments from GDOT and will resubmit the final concept report.

4 Meeting Adjourned

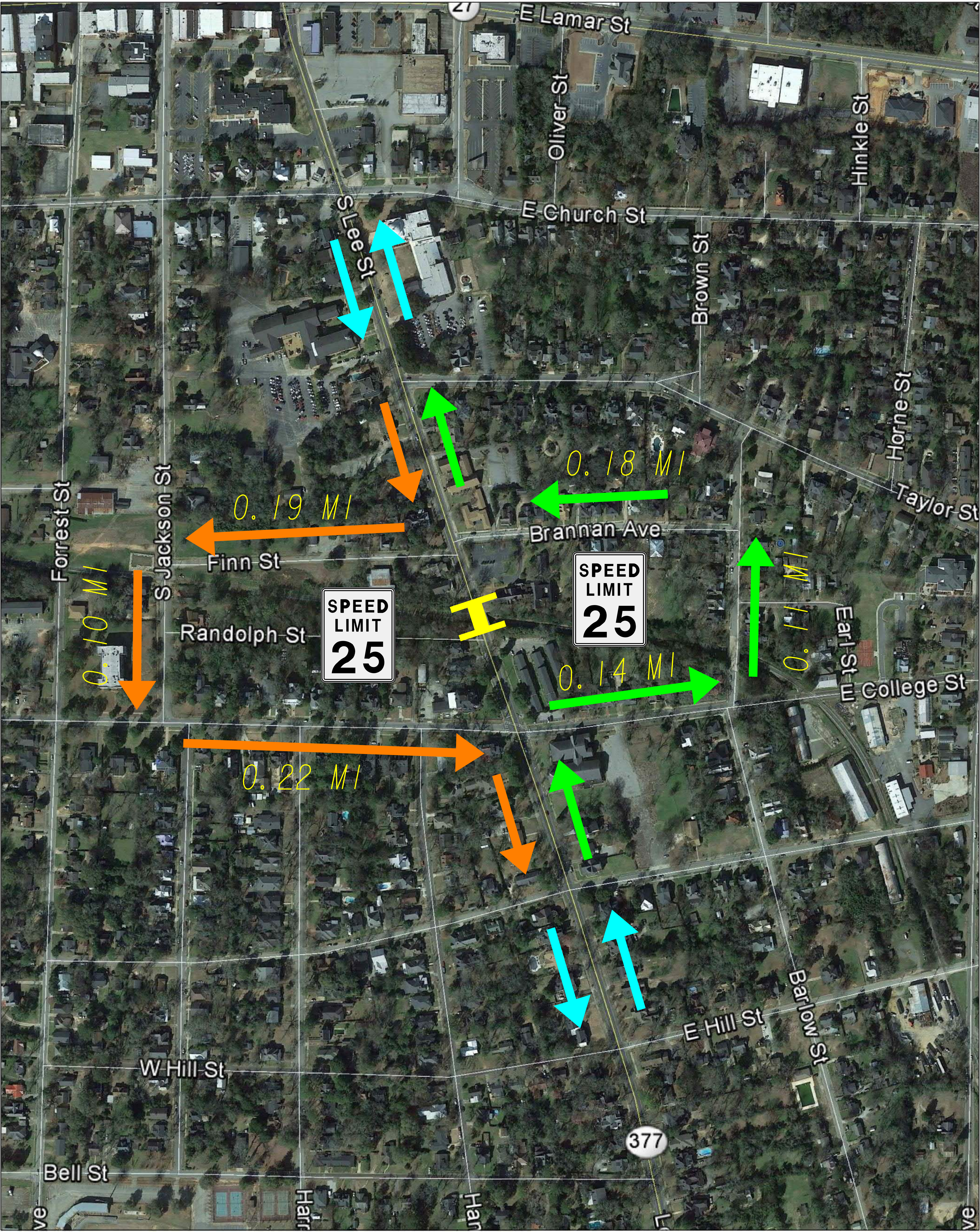
Please sign in below

<u>Name</u>	<u>Title/Office</u>	<u>Email</u>
1. Laura Kelly	GDOT Roadway Design	Lakelly@dot.ga.gov
2. Terest Lannon	GDOT Roadway Design	tlannon@dot.ga.gov
3. Kadi Vilardo	GDOT Roadway Design	kvilardo@dot.ga.gov
4. Robert Elam	GDOT Roadway Design	relam@dot.ga.gov
5. Brad Lafevers	Heart of Ga. R.R.	brad.lafevers@gwrr.com
6. LIONEL ALEXANDER	JACOBS	lionel.alexander@jacobs.com
7. JONATHAN COX	JACOBS-ENV	JONATHAN.COX@JACOBS.COM
8. ARIEL ROBINSON	JACOBS	ARIEL.ROBINSON@JACOBS.COM
9. Josh Gomez	GDOT Traffic Ops	JGomez@dot.ga.gov
10. Dan Woods	D3-Traffic Ops.	dwoods@dot.ga.gov
11. Greg Jones	D3-D3 Area manager	gjones@dot.ga.gov
12. Keenan Ford	D3 Construction	kford@dot.ga.gov
13. Barbara Grogan	Ex. Dir. Sumter Cty. Dev. Authority	bgrogan@sumtercounty chamber.com
14. SCOTT PARKER	GDOT UTILITIES	sparker@dot.ga.gov
15. Patti Cullen	River Valley RC	pcullen@rivervalleyrc.org
16. Jim Lings	RVRC	jlings@rivervalleyrc.org
17. BOBBY WATSON	GDOT UTILITIES	BWATSON@DOT.GA.GOV
18. Shana Buckley	Dist Des Eng. ^{Precon}	sbuckley@dot.ga.gov
19. Derrick Coleman	GDOT/AECOM	
20. Bryan Ricks	JACOBS	
21. Jonathan Cox		
22.		
23.		

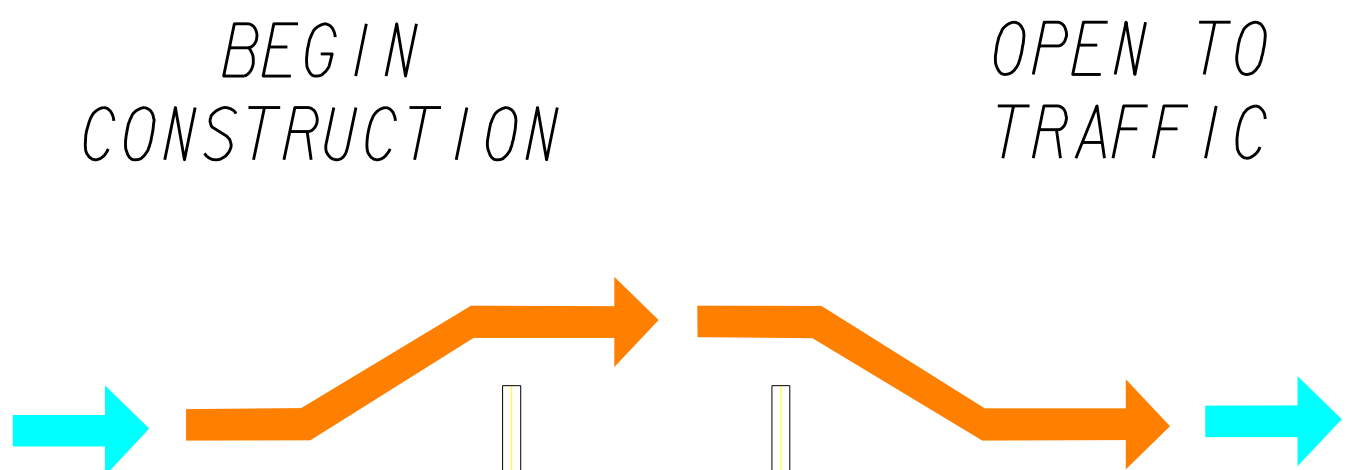
Attachment # 13





Detour Displays

LOCAL ROAD DETOUR ROUTE
BRIDGE REPLACEMENT ON SR 377 AT HOG#635346H IN AMERICUS
OVER HEART OF GEORGIA RAILROAD

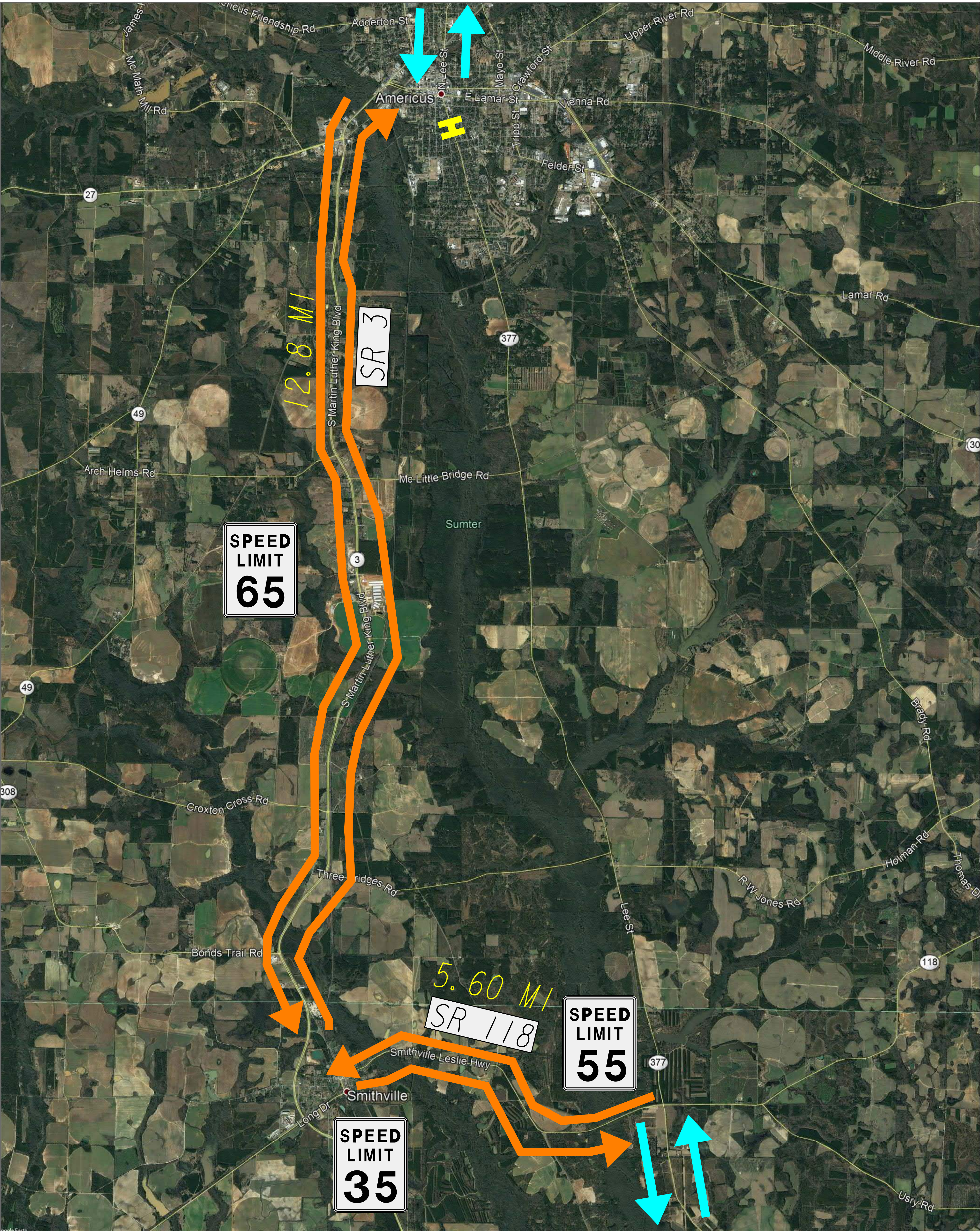


P.I. #0013752
SUMTER COUNTY
DETOUR LENGTHS:
NB 0.43 MILES
SB 0.51 MILES

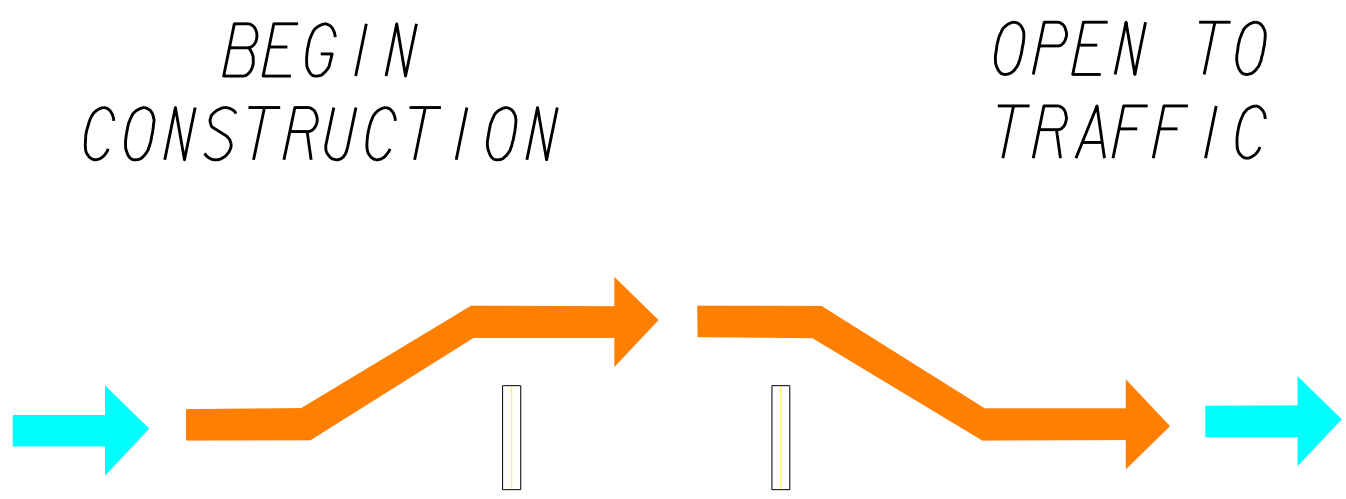


-  NORTHBOUND DETOUR ROUTE
-  SOUTHBOUND DETOUR ROUTE
-  CURRENT ROUTE STAYING OPEN
-  NO TRAFFIC

STATE ROUTE DETOUR ROUTE
BRIDGE REPLACEMENT ON SR 377 AT HOG#635346H IN AMERICUS
OVER HEART OF GEORGIA RAILROAD



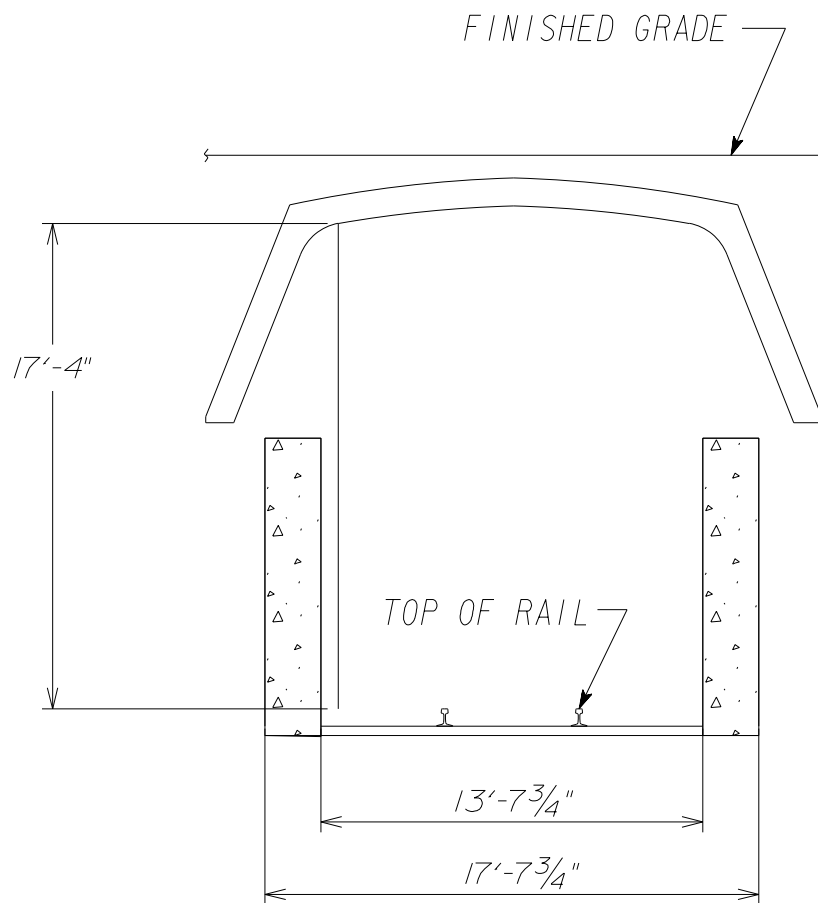
P.I. #0013752
SUMTER COUNTY
DETOUR LENGTH:
18.4 MILES



- DETOUR ROUTE
- CURRENT ROUTE STAYING OPEN
- NO TRAFFIC

Attachment # 14

Bridge Alternates



3-SIDED CULVERT OPTION